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FIG. 85A

GACATCTTGCTGACTCAGTCTCCAGCCATCCTGTCTGTGAGTCCAGGA  
 GAAAGAGTCAGTTTCTCCTGCAGGGCCAGTCAGTTCGTGGCTCAAGC  
 ATCCACTGGTATCAGCAAAGAACAATGGTTCTCCAAGGCTTCTCATA  
 AAGTATGCTTCTGAGTCTATGTCTGGGATCCCTTCCAGGTTTAGTGCC  
 AGTGGATCAGGGACAGATTTTACTCTTAGCATCAACACTGTGGAGTCT  
 GAAGATATTGCAGATTATTACTGTCAACAAAGTCATAGCTGGCCATTC  
 ACGTTCGGCTCGGGGACAAATTTGGAAGTAAAAGAAGTGAAGCTTGA  
 GGAGTCTGGAGGAGGCTTGGTGCAACCTGGAGGATCCATGAAACTCT  
 CCTGTGTTGCCTCTGGATTCAATTTTCAGTAACCACTGGATGAAGCTGGG  
 TCCGCCAGTCTCCAGAGAAGGGGCTTGAGTGGGTGCTGAAATTAGA  
 TCAAAATCTATTAATTCTGCAACACATTATGCGGAGTCTGTGAAAGGG  
 AGGTTCAACATCTCAAGAGATGATTCCAAAAGTGCTGTCTACCTGCAA  
 ATGACCGACTTAAGAACTGAAGACACTGGCGTTTATTACTGTGCCAGG  
 AATTACTACGGTAGTACCTACGACTACTGGGGCCAAGGCACCACTCTC  
 ACAGTCTCC

FIG. 85B

Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly Glu Arg Val  
 Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser Ile His Trp Tyr Gln Gln  
 Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile Lys Tyr Ala Ser Glu Ser Met Ser Gly  
 Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn  
 Thr Val Glu Ser Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro  
 Phe Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys Glu Val Lys Leu Glu Glu Ser  
 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Met Lys Leu Ser Cys Val Ala Ser Gly  
 Phe Ile Phe Ser Asn His Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu  
 Glu Trp Val Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu  
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala Val Tyr  
 Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr Tyr Cys Ser Arg  
 Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln Gly Thr Thr Leu Thr Val Ser

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FIG. 86A

ATGGAGACAGACACACTCCTGTTATGGGTGCTGCTGCTCTGGGTTC  
CAAGTTCCACTGGTGACGTCAGGCGAGGGCCCCGGAGCCTGCGGGGCAG  
GGACGCGCCAGCCCCACGCCCTGCGTCCCGGCCGAGTGCTTCGACC  
TGCTGGTCCGCCACTGCGTGGCCTGCGGGCTCCTGCGCACGCCGCGGC  
CGAAACCGGCCGGGGCCAGCAGCCCTGCGCCAGGACGGCGCTGCAG  
CCGCAGGAGTCGGTGGGCGCGGGGGCCGGCGAGGCGGCGGTGACA  
AAACTCACACATGCCCCACGTGCCAGCACCTGAACTCCTGGGGGA  
CCGTAGTCTTCCTCTTCCCCCAAACCCAAGGACACCCTCATGATC  
TCCCGGACCCCTGAGGTACATGCGTGGTGGTGACGTGAGCCACGA  
AGACCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGAGGTGC  
ATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTA  
CCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAAGGACTGGCTGAATGG  
CAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCA  
TCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAG  
GTGTACACCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGT  
CAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATCGCCGT  
GGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAAGACCACG  
CCTCCCGTGTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTC  
ACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTC  
CGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCT  
CCCTGTCTCCCGGAAATGA

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FIG. 86B

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser  
Thr Gly Asp Val Arg Arg Gly Pro Arg Ser Leu Arg Gly Arg Asp Ala Pro Ala  
Pro Thr Pro Cys Val Pro Ala Glu Cys Phe Asp Leu Leu Val Arg His Cys Val Ala  
Cys Gly Leu Leu Arg Thr Pro Arg Pro Lys Pro Ala Gly Ala Ser Ser Pro Ala Pro  
Arg Thr Ala Leu Gln Pro Gln Glu Ser Val Gly Ala Gly Ala Gly Glu Ala Ala Val  
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser  
Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu  
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr  
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys  
Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro  
Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn  
Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys  
Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met  
His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys

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FIG. 87

Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu Gly Asp Arg Val  
 Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr Leu Asn Trp Tyr Gln Gln  
 Lys Pro Asp Gly Ile Val Lys Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly  
 Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser  
 Asn Leu Glu Gln Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro  
 Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

FIG. 88

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Gly Pro Gly Thr Ser Val Arg  
 Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr Leu Ile Glu Trp Val Lys  
 Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Val Ile Tyr Pro Gly Ser Gly Gly  
 Thr Asn Tyr Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser  
 Thr Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Phe  
 Cys Ala Arg Arg Asp Gly Asn Tyr Gly Trp Phe Ala Tyr Trp Gly Arg Gly Thr  
 Leu Val Thr Val Ser Ala

FIG. 89

Asp Ile Gln Met Thr Gln Thr Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val  
 Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr Leu Asn Trp Tyr Gln Gln  
 Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly  
 Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser  
 Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu  
 Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Val Lys

FIG. 90

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys  
 Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr Leu Ile Glu Trp Val Arg  
 Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Val Ile Tyr Pro Gly Ser Gly Gly  
 Thr Asn Tyr Asn Glu Lys Phe Lys Gly Arg Val Thr Leu Thr Val Asp Glu Ser  
 Thr Asn Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr  
 Phe Cys Ala Arg Arg Asp Gly Asn Tyr Gly Trp Phe Ala Tyr Trp Gly Gln Gly  
 Thr Leu Val Thr Val Ser Ser

FIG. 91

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Asp Ile Gln Met Thr Gln Thr Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val  
 Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr Leu Asn Trp Tyr Gln Gln  
 Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Tyr Thr Ser Thr Leu His Ser Gly  
 Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser  
 Ser Leu Gln Pro Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu  
 Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Val Lys Arg Thr Val Ala Ala Pro  
 Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val  
 Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val  
 Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys  
 Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys  
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys  
 Ser Phe Asn Arg Gly Glu Cys

FIG. 92

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys  
 Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr Leu Ile Glu Trp Val Arg  
 Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Val Ile Tyr Pro Gly Ser Gly Gly  
 Thr Asn Tyr Asn Glu Lys Phe Lys Gly Arg Val Thr Leu Thr Val Asp Glu Ser  
 Thr Asn Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr  
 Phe Cys Ala Arg Arg Asp Gly Asn Tyr Gly Trp Phe Ala Tyr Trp Gly Gln Gly  
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala  
 Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp  
 Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val  
 His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val  
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys  
 Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His  
 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe  
 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly  
 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr  
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu  
 Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser  
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp  
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr  
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp  
 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu  
 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly

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FIG. 93A

ATGGATTTTCAGGTGCAGATTATCAGCTTCCTGCTAATCAGTGCTTCA  
GTCATAATGTCCAGAGGGCAAATTGTTCTCTCCAGTCTCCAGCAATC  
CTGTCTGCATCTCCAGGGGAGAAGGTCACAATGACTTGCAGGGCCAG  
CTCAAGTGTAAGTTACATCCACTGGTTCAGCAGAAGCCAGGATCCTC  
CCCCAAACCCTGGATTATGCCACATCCAACCTGGCTTCTGGAGTCCC  
TGTTGCTTCAGTGGCAGTGGGTCTGGGACTTCTTACTCTCTCACAAT  
CAGCAGAGTGGAGGCTGAAGATGCTGCCACTTATTACTGCCAGCAGT  
GGACTAGTAACCCACCCACGTTCCGGAGGGGGACCAAGCTGGAAATC  
AAA

FIG. 93B

Met Asp Phe Gln Val Gln Ile Ile Ser Phe Leu Leu Ile Ser Ala Ser Val Ile Met Ser  
Arg Gly Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly Glu  
Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Ile His Trp Phe Gln  
Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr Ala Thr Ser Asn Leu Ala Ser  
Gly Val Pro Val Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile  
Ser Arg Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Thr Ser Asn  
Pro Pro Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys

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FIG. 94A

ATGGGGTTGGAGCCTCATCTTGCTCTTCCTTGTCGCTGTTGCTACGCGTG  
TCCTGTCCCAGGTACAACCTGCAGCAGCCTGGGGCTGAGCTGGTGAAG  
CCTGGGGCCTCAGTGAAGATGTCCTGCAAGGCTTCTGGCTACACATT  
ACCAGTTACAATATGCACTGGGTAAAACAGACACCTGGTCGGGGCCT  
GGAATGGATTGGAGCTATTTATCCCGAAATGGTGATACTTCCTACAA  
TCAGAAGTTCAAAGGCCAAGGCCACATTGACTGCAGACAAATCCTCCA  
GCACAGCCTACATGCAGCTCAGCAGCCTGACATCTGAGGACTCTGCG  
GTCTATTACTGTGCAAGATCGACTTACTACGGCGGTGACTGGTACTTC  
AATGTCTGGGGCGCAGGGACCACGGTCACCGTCTCTGCA

FIG. 94B

Met Gly Trp Ser Leu Ile Leu Leu Phe Leu Val Ala Val Ala Thr Arg Val Leu Ser  
Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys Pro Gly Ala Ser Val Lys  
Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Asn Met His Trp Val Lys  
Gln Thr Pro Gly Arg Gly Leu Glu Trp Ile Gly Ala Ile Tyr Pro Gly Asn Gly Asp  
Thr Ser Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser  
Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr  
Cys Ala Arg Ser Thr Tyr Tyr Gly Gly Asp Trp Tyr Phe Asn Val Trp Gly Ala Gly  
Thr Thr Val Thr Val Ser Ala

FIG. 95A

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GACGTCGCGGCCGCTCTAGGCCTCCAAAAAGCCTCCTCACTACTTCT  
GGAATAGCTCAGAGGCCGAGGCGCCTCGGCCCTGTCATAAAATAAAA  
AAAATTAGTCAGCCATGCATGGGGCGGAGAATGGGCGAACTGGGCG  
GAGTTAGGGGCGGGATGGGCGGAGTTAGGGGCGGGACTATGGTTGCT  
GACTAATTGAGATGCATGCTTTGCATACTTCTGCCTGCTGGGGAGCCT  
GGGGACTTTCCACACCTGGTTGCTGACTAATTGAGATGCATGCTTTGC  
ATACTTCTGCCTGCTGGGGAGCCTGGGGACTTTCCACACCCTAACTGA  
CACACATTCCACAGAATTAATTCCTAGTTATTAATAGTAATCAATT  
ACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAA  
CTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCGCC  
ATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGA  
CTTTCCATTGACGTCAATGGGTGGACTATTACGGTAAACTGCCCACT  
TGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACG  
TGAACGCGGTAACTGGCCCGCCTGGCATTATGCCAAGTACGCGCTT  
TATGGGACTTTCTACTTTGGCAGTACATCTACGTATTAGTCATCGCTA  
TTACCATGGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGC  
GGTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATTTGACGTCAATG  
GGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGCTGTA  
ACAACTCCGCCCCATTGACGCAAAATGGGCGGTAGGCGTGTACGGTGG  
GAGGTCTATATAAGCAGAGCTGGGTACGTGAACCGTCAGATCGCCTG  
GAGACGCCATCACAGATCTCTACCATGAGGGTCCCCGCTCAGCTCCT  
GGGGCTCCTGTGCTCTGGCTCCAGGTGCACGATGTAGTGGTACCAA  
GGTGAAATCAAACGTACGGTGGCTGCACCATCTGTCTTCATCTTCCC  
GCCATCTGATGAGCAGTTGAAATCTGGAACCTGCCTCTGTTGTGTGCT  
GCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGG  
ATAACGCCCTCCAATCGGGTAACCTCCAGGAGAGTGTACAGAGCAG  
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAG  
CAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAAGTCAACC  
ATCAGGGCCTGAGCTCGCCGTCACAAAGAGCTTCAACAGGGGAGAG  
TGTGAATTTCAGATCCGTTAACGGTTACCAACTACCATAGCTGAGATT  
GTGACAACATGCGGCCGTGATATCTACGTATGATCAGCCTCGACTGTG  
CCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCCCTCCCCCGTGCTTCTCT  
TGACCCCTGGAAGGTGCCACTCCCACTGTCTTTTCTTAATAAAATGAGG  
AAATTGTCATCGCAATTGTCTGAGTAGGTGTCATTTCTATTCTGGGGGTG  
GGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAG  
GCATGCTGGGGATGCGGTGGGCTCTATGGAACCAAGCTGGGGCTCGAC  
AGCATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGC  
CCGCTGGCATTTATGCCAGTACATGACCTTATGGGACTTTGGCACTT  
GGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGT  
TTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGA  
TTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTGTTGGCAC



FIG. 95B

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CAAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCATTG  
ACGCAAAATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCAG  
AGCTGGGTACGTCTTCACATTCAAGTATCAGCACTGAACACAGACCC  
GTGACATGGGTGGGAGCCTCATCTTGCTCTTCTTGTGCGTGTGCTA  
CGCGTGTCCGTAAGCACCAAGGGCCATCGGTCTTCCCCCTGGCACCCCT  
CCTCCAAGAGCACCTCTGGGGGACAGCGGCCCTGGGCTGCCTGGTC  
AAGGACTACTTCCCGAACC GGGTGACGGTGTCTGTGGAACCTCAGGCGC  
CCTGACCAGCGCGGTGCACACCTTCCCGGCTGTCTACAGTCTCAGG  
ACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGGTGGG  
CACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCA  
AGGTGGACAAGAAAGCAGAGGCCAAAATCTTGTGACAAAACCTACACA  
TGCCCCACCGTGCCAGCACCTGAACTCCTGGGGGGACCGTCACTCTTC  
CTCTCCCGCTCAGCACCGGACCCCTCATGATCTCTCCGTCAGGCTGGG  
GAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGT  
CAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGA  
CAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTTCAGG  
GTCTCACCCTCCTGACACGAGGACTGGCTGAATGGCAAGGATACAA  
GTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCA  
TCTCCAAAGCCAAAGGGCAGCCCCGAGAACCCACAGGTGTACACCTG  
CCCCATCCCGGGATGAGCTGACCAGGAACAGGTGACCGCTGACCTG  
CGCTGTCAAAAGGCTTCTATCCAGCGACATCGCGTGGAGTGGGAGA  
GCAATGGGCAGCCGGAGAACAACTACAAGACCACGCTCCCGTGCTG  
GACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCCTGGACAAG  
AGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGA  
GGCTCTGCACAAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGG  
TAAATGAGGATCCGTTAACGGTTACCAACTACCTAGACTGGATTCTGT  
ACAACATGCGGCCGTGATATCTACGTATGATCAGCCTCGACTGTGCT  
TCTAGTTGCCAGCCATCTGTTGTTGGCCCTCCCCGTGCTTCTTGA  
CCTTGAAGGTGCCACTCCCACTGTCTTCTTCTAATAAAATGAGGAAA  
TTGCATCGCATTGTCTGAGTAGGTGTCTATTCTTCTGGGGGTGGGG  
TGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCA  
TGCTGGGGATGCGGTGGGCTCTATGGAACAGCTGGGGCTCGACAGC  
GCTGGATCTCCCGATCCCCAGCTTGTCTCAATTTCTTAATTTGCATA  
ATGAGAAAAAAAGGAAAAATTAATTTTAACACCAATTCACTAGTTGAT  
TGAGCAAAATGCGTTGCCAAAAAGGATGCTTAGAGACAGTGTCTCT  
GCACAGATAAAGGACAAACATTATTCAGAGGGAGTACCCAGAGCTGAG  
ACTCTAAGCCAGTGAAGTGGCACAGCATTTAGGGAGAAAATATGCTT  
GTCATCACCGAAGCCTGATTCCGTAGAGCCACACCTTGGTAAGGGCC  
AATCTGCTCACACAGGATAGAGAGGGGCAGGAGCCAGGGCAGAGCAT  
ATAAGGTGAGGTAGGATCAGTTGCTCTCACATTTGCTTCTGACATAG  
TTGTGTTGGGAGCTTGGATAGCTTGGACAGCTCAGG

FIG. 95C

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GCTGCGATTTCGCGCCAAACTTGACGGCAATCCTAGCGTGAAGGCTG  
GTAGGATTTTATCCCCGCTGCCATCATGGTTCGACCATTGAACTGCAT  
CGTCGCCGTGTCCCAAAATATGGGGATTGGCAAGAACGGAGACCTAC  
CCTGGCCTCCGCTCAGGAACGAGTTCAAGTACTTCCAAAGAATGACC  
ACAACCTCTTCAGTGGGAAGGTAAACAGAAATCTGGTGATTATGGGTAG  
GAAAACCTGGTTCTCCATTCTGTAGAACAAATCGACCTTTAAAGGACA  
GAATTAATATAGTTCTCAGTAGAGAACTCAAAGAACCACCACGAGGA  
GCTCATTTTCTTGCCAAAAGTTTGGATGATGCCTTAAGACTTATTGAA  
CAACCGGAATTGGCAAGTAAAGTAGACATGGTTTGGATAGTCGGAGG  
CAGTTCTGTTTACCAGGAAGCCATGAATCAACCAGGCCACCTTAGACT  
CTTTGTGACAAGGATCATGCAGGAATTTGAAAGTGACACGTTTTTCCC  
AGAAATTGATTGGGGAAATATAAACTTCTCCAGAATACCCAGGCG  
TCTCTCTGAGTCCAGGAGGAAAAAGGCATCAAGGTAGTCCACTCCCAG  
GTCTACGAGAAGAAAGACTAACAGGAAGATGCTTTCAAGTTCTCTGC  
TCCCTCCTAAAGTCATGCATTTTTATAAGACCATGGGACTTTTGCTG  
GCTTTAGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTGTG  
TTGCCCTCCCCGCTGCCTTCTTGACCTGGAAGGTGCCACTCCCAC  
TGTCCTTTCTAATAAAATGAGGAAATTGCATCGCATTTGTCTGAGTAG  
GTGTCAATTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGG  
AGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCT  
ATGGAACCAAGCTGGGGCTCGAGCTACTAGCTTTGCTTCTCAATTTCTT  
ATTTGCATAATGAGAAAAAAAGGAAAATTAATTTTAAACCAATTCA  
GTAGTTGATTGAGCAAATGCGTTGCCAAAAAGGATGCTTTAGAGACA  
GTGTTCTCTGCACAGATAAGGACAAACATTATTACAGAGGGAGTACCC  
AGAGCTGAGACTCCTAAGCCAGTGAGTGGCACAGCAATTTAGGGAGA  
AATATGCTTGTCTATCACCGAAGCCTGATTCCGTAGAGCCACACCTTGG  
TAAGGGCCAATCTGCTCACACAGGATAGAGAGGGCAGGAGCCAGGG  
CAGAGCATATAAGGTGAGGTAGGATCAGTTGCTCCTCACATTTGCTTC  
TGACATAGTTGTGTTGGGAGCTTGATCGATCCTCTGATGGTTGAACAA  
GATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCT  
GGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGT  
GTCCGGCTCTCAGCGCAGGGGCCGCCGGTTCTTTTGTCAAGACCGA  
CCTGTCCGGTCCAGCTGAATGAACTGCAGGACGAGGACGCGCGGCTAT  
CGTGGCTGGCCACGACGGGCGTTTCTTGCGCAGCTGTGCTCGACGTTG  
TCACTGAAGCGGGAAAGGACTGGCTGCTATTGGGCGAAGTGCCCGGG  
CAGGATCTCTGTCTATCTACCTTGCTCTGCGGAGAAAGTATCCATC  
ATGGCTGATGCAATGCGGGCGGTGCATACGCTTGATCCGGTACCTGCG  
CCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTAATCG  
GATGGAAGCCGGTCTTGTCGATCAGGATGATCTGAGCAAGAGCATC  
AGGGGCTCGCGCAGCGCAAGTTCGCCAGGCTCAAGCGCGCATG  
CCCGACGGCGAGGATCTCGTCTGTGACCCATGGCGATGCTGCTTGGCG

FIG. 95D

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AATATCATGGTGGAAAAATGGCCGCTTTTCTGGATTTCATCGACTGTGGC  
CGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCG  
TGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCTCTCGT  
GCTTTACGGTATCGCCGCTTCCCGATTTCGCAGCGCATCGCCTTCTATC  
GCCTTCTTGACGAGTTCCTCTGAGCGGGACTCTGGGTTTCGAAATGAC  
CGACCAAGCGACGCCCAACCTGCCATCAGGAGATTTTCGATTCCACCG  
CCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCG  
GCTGGATGATCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCC  
ACCCCAACTTGTATTGTCAGCTTATAATGGTTACAAATACAAAGCAATA  
GCATCACAAATTTACAAATAAAGCATTTTTTTCACTGCATTCTAGTT  
GTGGTTTGTCCAAACTCATCAATCTATCTATCATGTCTGGATCGCGG  
CCGCGATCCCGTCGAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCC  
TGTGTGAAATTGTTATTCGCTCACAAATTCACAAATACAAAGCAATA  
AGCATAAAGTGTAAGGCTGGGGTGCCTAATGAGTGAGCTAACTCAC  
ATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAACCTGTC  
GTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTT  
TGCGTATTTGGCGCTCTTCCGCTTCTCGCTCACTGCTCGTCTCGCTC  
GGTCGTTCCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAA  
TACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGA  
GCAAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGC  
TGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAGCAATA  
GACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATAC  
CAGGCGTTTTCCCGCTGGAAGCTCCCTCGTGCCTCTCTCTGTTCCGACC  
CTGCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTG  
GCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTC  
GTTGCTCCAAGCTGGGCTGTGTGCACGAACCCCGCTTCAGCCCGAC  
CGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGA  
CAOGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAG  
AGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTA  
ACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGA  
AGCCAGTTACCTTCGGA AAAAGAGTTGGTAGCTCTTGATCCGGCAAA  
CAAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGCAAGCAGCAGATT  
ACGCGCAGAAAAAAGGATCTCAAGAAGATCCCTTTGATCTTTTCTAC  
GGGGTCTGACGCTCAGTGGAACGAAAACCTCACGTAAAGGGATTTTGG  
TCATGAGATTATCAAAAAGGATCTTCACTAGATCCCTTTTAAATTA  
AATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTG  
ACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTC  
TATTTCTGTTTCATCCATAGTTGCCCTGACTCCCCGTCGTGTAGATAACTAC  
GATACGGGAGGGCTTACCATCTGCCCCAGTGCTGCAATGATACCGC  
GAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACACGCCA  
GCCGGAAGGGCCGAGCGCAGAAAGTGGTCTGCAACTTTATCCGCCTC  
CATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGC

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FIG. 95E

CAGTTAATAGTTTGC GCAACGTTGTTGCCATTGCTACAGGCATCGTGG  
TGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAAC  
GATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTT  
AGCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTG  
TTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGC  
CATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCAT  
TCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAA  
TACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAAGTGCTCATC  
ATTGGAACCGTTCTTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTG  
TTGAGATCCAGTTCGATGTAAACCACTCGTGACCCAACTGATCTTCA  
GCATCTTTTACTTTCACCAAGCGTTTCTGGGTGAGCAAAAAACAGGAAGG  
CAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAA  
TACTCATACTCTTCTTTTCAATATTATTGAAGCATTTATCAGGGTTA  
TTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACA  
AATAGGGGTTCCGCGCACATTCCCCGAAAAGTGCCACCT

FIG. 96A

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GACGTCGCGGCCGCTCTAGGCCTCCAAAAAGCCTCCTCACTACTTCT  
GGAATAGCTCAGAGGCCGAGGCGGCCTCGCCTCTGCATAAATAAAA  
AAAATTAGTCAGCCATGCATGGGGCGGAGAATGGGCGGAACTGGGCG  
GAGTTAGGGGCGGGATGGGCGGAGTTAGGGGCGGGACTATGGTTGCT  
GACTAATTGAGATGCATGCTTTGCATACTTCTGCCTGCTGGGGAGCCT  
GGGGACTTTCCACACCTGGTTGCTGACTAATTGAGATGCATGCTTTGC  
ATACTTCTGCCTGCTGGGGAGCCTGGGGACTTTCCACACCCCTAACTGA  
CACACATTCCACAGAATTAATTCCCCTAGTTATTAATAGTAATCAATT  
ACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGGTACATAA  
CTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGCCCCGCC  
ATTGACGTCATAATGACGTATGTTCCCATAGTAACGCCAATAGGGA  
CTTTCCATTGACGTCATAGGGTGGACTATTTACGGTAACTGCCCACT  
TGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACG  
TGCAATGACGGTAAATGGCCCGCCTGGCATTATGCCAGTACATGACCT  
TATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTA  
TTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATACC  
GGTTTGACTCAGCGGATTTCGAAGTCTCCACCCCATGGAGTCAATG  
GGAGTTGTTTTTGGCACCAAAATCAACGGGACTTTCCAAAAATGTCGTA  
ACAACTCCGCCCCATTGACGCAAAATGGGCGGTAGGCGTGTACGGTGG  
GAGGTCTATATAAGCAGAGCTGGGTACGTGAACCGTCAGATCGCCTG  
GAGACGCCATCAGATCTCTCACTATGGATTTTCAGGTGCAGATTAT  
CAGCTTCCTGCTAATCAGTGCTTCAGTCATAATGTCCAGAGGACAAAAT  
TGTTCTCTCCCACTCTCCAGCAATCCTGTCTGCATCTCCAGGGGAGAA  
GGTCACAAATGACTTGCAGGGCCAGCTCAAGTGTAAGTTACATCCACT  
GGTTCCAGCAGAAGCCAGGATCCTCCCCAAAACCTGGATTATGCCA  
CATCCAACCTGGCTTCTGGAGTCCCTGTTTCGCTTCAGTGGCAGTGGGT  
CTGGGACTTCTTACTCTCTCACAATCAGCAGAGTGGAGGCTGAAGATG  
CTGCCACTTATTACTGCCAGCAGTGGACTAGTAACCCACCCACGTTTCG  
GAGGGGGGACCAAGCTGGAATCAAACGTACGGTGGCTGCACCATCT  
GTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCC  
TCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGGCCAAAGTA  
CAGTGGAAAGGTGGATAACGCCTCCAATCGGGTAACTCCAGGAGAG  
TGTACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCA  
CCCTGACGCTGAGCAAAAGCAGACTACGAGAAACACAAAGTCTACGCC  
TGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAAGAGCTT  
CAACAGGGGAGAGTGTGTAATTCAGATCCGTTAACGGTTACCAACTA  
CCTAGACTGGATTCTGTGACAACATGCGGCCGTGATATCTACGTATGAT  
CAGCCTCGACTGCGCCTTCTAGTTGCCAGCCATCTGTGTTTGGCCCTC  
CCCCGTGCCTTCCTTGACCTGGAAAGGTGCCACTCCCACTGTCTTTCC

FIG. 96B

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TAATAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCT  
ATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGG  
AAGACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGAACCA  
GCTGGGGCTCGACAGCTATGCCAAGTACGCCCCCTATTGACGTCAATG  
ACGGTAAATGGCCGCTGGCATTATGCCAGTACATGACCTTATGGG  
ACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCAT  
GGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTTG  
ACTCACGGGGATTTCGAAGTCTCCACCCCATTTGACGTCAATGGGAGTT  
TGTTTTGGCACCAAAATCAACGGGACTTTCAAAAATGTCGTAACAACT  
CCGCCCCATTGACGCAAAATGGGCGGTAGGCGGTGACGGTGGGAGGTC  
TATATAAGCAGAGCTGGGTACGTCTCACATTCACTGATCAGCACTGA  
ACACAGACCCGTCGACATGGGTTGGAGCCTCATCTTGCTCTTCCTTGT  
CGCTGTGTGCTACCGTGTCTCTGTCCAGGTACAACCTGCAGCAGCCTGG  
GGCTGAGCTGGTGAAGCCTGGGGCCTCAGTGAAGATGCTCGTGAAGG  
CTTCTGGCTACACATTTACCAAGTACAATATGCACTGGGTAACACAGA  
CACCTGGTGGGGGCTGGAATGGATTGGAGCTATTATCCCGGAAAT  
GGTGATACTTCCATAACATCAGAAGTTCAAAGGCAAGGCCACATTGAC  
TGCAGACAAATCTCCAGCACAGCCTACATGCAGCTCAGCAGCCTGA  
CATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGACTTACTACG  
GCGGTGACTGGTACTTCAATGTCTGGGGCGCAGGGACACGGTCAACC  
GTCTCTGAGCTAGCACCAAGGGCCCATCGGTCTTCCCTTGGCACCC  
TCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGT  
CAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGGAACCTCAGGCG  
CCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCTACAGTCTCTAG  
GACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCAGCAGCTTGG  
GCACCCAGACCTACATCTGCAACGTGAATCACAAGCCAGCAACACC  
AAGGTGGACAAGAAAGCAGAGCCCCAAATCTTGTGACAAAACCTCACAC  
ATGCCCACCGTGCCACAGCACCTGAACTCCTGGGGGGACCGTCAGTCTT  
CTCTTCTCCCCCAAAACCAAGGACACCCCTCATGATCTCCCGGACCCC  
TGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCTGAGG  
TCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAG  
ACAAAGCCGGGGAGGAGCAGTACAACAGCAGTACCGTGTGGTTCAG  
CGTCTCACCCTCTGACACAGGACTGGCTGAATGGCAAGGAGTACA  
AGTGCAAGGTCTCCAACAAAGCCCTCCAGCCCCCATCAGAAAAACC  
ATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCT  
GCCCCCATCCCGGATGAGCTGACCAAGAACCAGGTGACGCTGACCT  
GCCTGGTCAAAAGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAG  
AGCAATGGGCAGCCGGAGAACAACCTACAAGACCACGCCTCCCGTGCT  
GGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCCTGGACAA  
GAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGTCTCCGTGATGCAATG  
AGGCTCTGCACAACCACTACACGCAGAAAGAGCTTCCCTGTCTCCGG  
GTAATGAGGATCCGTAAACGGTTACCAACTACCTAGACTGGATTCTCGT

FIG. 96C

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GACAACATGCGGCCGTGATATCTACGTATGATCAGCCTCGAGTGTGCC  
TTCTAGTTGCCAGCCATCTGTTGTTTGCCCTCCCCGTGCCTTCCTTG  
ACCCTGGAAGGTGCCACTCCCAGTGTCTTCTCTAATAAAATGAGGAA  
ATTGCATCGCATTTGTCTGAGTAGGTGTCTATTCTTCTGGGGGGTGGG  
GTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGC  
ATGCTGGGGATGCGGTGGGCTCTATGGAACCAAGCTGGGGCTCGACAG  
CGCTGGATCTCCCGATCCCCAGCTTTGCTTCTCAATTTCTATTGTCAT  
AATGAGAAAAAAGGAAAAATTAATTTTAACACCAATTCAGTAGITGA  
TTGAGCAAATGCGTTGCCAAAAAGGATGCTTTAGAGACAGTGTCTCT  
GCACAGATAAGGACAAACATTATTACAGAGGGAGTACCCAGAGCTGAG  
ACTCCTAAGCCAGTGAGTGGCACAGCATTCTAGGGAGAAAATATGCTT  
GTCATCACCGAAGCCTGATTCCGTAGAGCCACACCTTGGTAAGGGCC  
AATCTGCTCACACAGGATAGAGGGCAGGAGCCAGGGCAGGACAGCAT  
AATAGGTGAGGTAGGATCAGTTGCTCTCTCACATTTGCTTCTGACATAG  
TTGTGTTGGGAGCTTGGATAGCTTGGACAGCTCAGGGCTGCGATTTCG  
CGCCAAACTTGACGGCAATCCTAGCGTGAAGGCTGGTAGGATTTTATC  
CCCGCTGCCATCATGGTTTCGACCATTGAACTGCATCTCGCGGTGTC  
CAAAATATGGGGATTGGCAAGAACGGAGACCTACCCTGGCCTCCGCT  
CAGGAACGAGTTCAAGTACTTCCAAAGAATGACCACAACCTCTTCAG  
TGGAAGGTAAACAGAACTCTGGTGATTATGGGTAGGAAAACTGGTTC  
TCCATTCTTGAGAAGAATCGACCTTTAAAGGACAGAAATTAATATGTT  
CTCAGTAGAGAACTCAAAGAACCACCACGAGGAGCTCATTTTCTTGC  
CAAAAGTTTGGATGATGCCTTAAGACTTATTGAACAACCGGAATTGG  
CAAGTAAAGTAGACATGGTTTGGATAGTCGGAGGCAGTTCTGTTTACC  
AGGAAGCCATGAATCAACCAGGCCACCTTAGACTCTTTGTGACAAGG  
ATCATGCAGGAATTTGAAAGTGACACGTTTTTCCCAGAAATTGATTTG  
GGGAAATATAAACTTCTCCCAGAATACCCAGGCGTCTCTCTGA  
GGTCCAGGAGGAAAAAGGCATCAAGTATAAGTTTGAAGTCTACGAGA  
AGAAAGACTAACAGGAAGATGCTTTCAAGTTCTCTGCTCCCCCTCTAA  
AGCTATGCATTTTATAAGACCATGGGACTTTTGCTGGCTTTAGATCA  
GCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGCCCTCCC  
CCGTGCCTTCTTGACCCTGGAAGGTGCCACTCCCAGTGCCTTTCTCTA  
ATAAAATGAGAAATTCATCGCATGTCTGAGTAGGTTGATGTTCTAT  
TCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAA  
GACAATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATGGAACCAAGC  
TGGGGCTCGAGCTACTAGCTTTGCTTCTCAATTTCTTATTTCGATAATG  
AGAAAAAAGGAAAAATTAATTTTAACACCAATTCAGTAGTGTGATTGA  
GCAAATGCGTTGCCAAAAAGGATGCTTTAGAGACAGTGTCTCTGCA  
CAGATAAGGACAAACATTATTACAGAGGAGTACCCAGAGCTGAGACT  
CCTAAGCCAGTGAGTGGCACAGCATTCTAGGGAGAAAATATGCTTGT  
ATCACCGAAGCCTGATTCCGTAGAGCCACACCTTGGTAAGGGCCAAT  
CTGCTCACACAGGATAGAGAGGGCAGGAGCCAGGGCAGAGCATATA  
AGGTGAGGTAGGATCAGTTGCTCTCACATTTGCTTCTGACATAGTTG

FIG. 96D

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TGTTGGGAGCTTGGATCGATCCTCTATGGTTGAACAAGATGGATTGCA  
CGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTTCGGCTATGACTG  
GGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTC  
AGCGCAGGGGCGCCCCGTTCTTTTTGTCAAGACCGACCTGTCCGGTGC  
CCTGAATGAACTGCAGGACGAGGCAGCGCGGTATCGTGGCTGGCCA  
CGACGGGCGTTTCTTGGCGAGCTGTGCTCGACGTTGTCACTGAAGCCGG  
GAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTG  
TCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCA  
ATCGCGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCAC  
CAAGCGAAACATCGCATCGAGCGAGCACGTACTCGATGGAAGCCCGG  
TCTTGTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGC  
CAGCCGAACCTGTTCCGCCAGGCTCAAGCGCGCATGCCCGACGGCGAG  
GATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTG  
GAAAAATGGCCGCTTTTCTGGATTCACTGTGGCCGGCTGGGTGTG  
GCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGA  
AGAGCTTGGCGGCGAATGGGCTGACCGCTTCTCGTGCTTTACGGTAT  
CGCCGTCCCCGATTGCGAGCGCATCGCCTTCTATCGCTTCTTGACGA  
GTTCTTCTGACGCGGAATCTGGGGTTCGAAATGACCGCAACGCGAC  
GCCCAACCTGCCATCAGGATTTTCGATTCCACCGCCGCTTCTATGA  
AAGTTGGGCTTCGGAATCGTTTTCGGGACGCCGGCTGGATGATCCT  
CCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCACCCCAACTTGTT  
TATTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCAGAAATTT  
CACAAATAAAGCATTTTTTCACTGCATTCTAGTTGTGGTTGTCCAA  
ACTCATCAATCTATCTTATCATGTCTGGATCGCGGCCGCGATCCCGTC  
GAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGT  
TATCCGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTG  
TAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTT  
GCGCTCACTGCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCA  
TTAATGAATCGGCCAACGCGCGGGGAGAGCGGTTTGCGTATTGGGC  
GCTCTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGCTGTTTCGGCT  
GCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCA  
CAGAAATCAGGGGATAACGACAGGAAAGAACATGTGAGCAAAAGGCCA  
GCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGTGGCGTTTTTCC  
ATAGGCTCCGCCCCCTGACGAGCATCAGAAATCGACGCTCAAGT  
CAGAGGTGGCGAAACCGACAGGACTATAAAGATACCAGGCGTTTCC  
CCTGGAAGTCTCCCTCGTGCCTCTCCTGTTCCGACCTGCGCGCTTAC  
CGGATACCTGTCCGCCCTTCTCCCTTCGGGAAGCGTGGCGCTTCTCA  
ATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCGCTCCAA  
GCTGGGCTGTGTGACGAACCCCGGTTACGCCGACCGCTGCGCCTT  
ATCCGGTAACATATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC



FIG. 96E

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GCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATG  
TAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTAC  
ACTAGAAAGGACAGTATTTGGTATCTGCGCTCTGTGTAAGCCAGTTACC  
TTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGC  
TGGTAGCGGTGGTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAA  
AAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGC  
TCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATC  
AAAAAGGATCTTCACCTAGATCCTTTTAAATTAATAAATGAAGTTTAA  
ATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATG  
CTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCC  
ATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGG  
CTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTC  
ACCGGCTCCAGATTTATCAGCAATAAACCCAGCCAGCCGAAGGGCCG  
AGCGCAGAAAGTGGTCTGCAACTTTATCCGCCTCCATCCAGTCTATTA  
ATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC  
GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGT  
TTGGTATGGCTTCATTAGCTCCGGTTCCCAACGATCAAGGCGAGTTA  
CATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTC  
CGATCGTTGTGTCAGAAAGTAAGTTGGCCGCGAGTGTTATCACTCATGGTTA  
TGGCAGCACTGCATAATTCTCTTACTGTGTCATGCCATCCGTAAGATGCT  
TTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTA  
TGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACC  
GCGCCACATAGCAGAACTTTAAAGTGCTCATCATTGGAAAACGTTCT  
TCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTTCG  
ATGTAACCCACTCGTGCACCACTGATCTTCAGCATCTTTTACTTTCA  
CCAGCGTTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAATGCCGCAAAA  
AAGGGAATAAGGGCGACACGAAATGTTGAATACTCATACTCTTCCT  
TTTTCAATATATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGG  
ATACATATTTGAATGTATTAGAAAAATAACAAATAGGGGTTCCGC  
GCACATTTCCCCGAAAAGTGCCACCT

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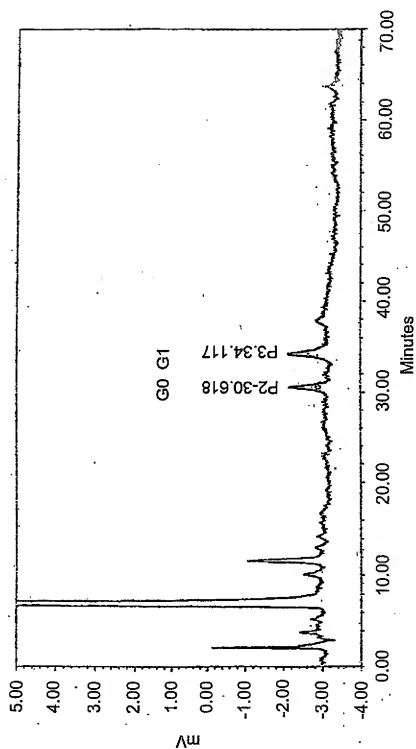


FIG. 97A.

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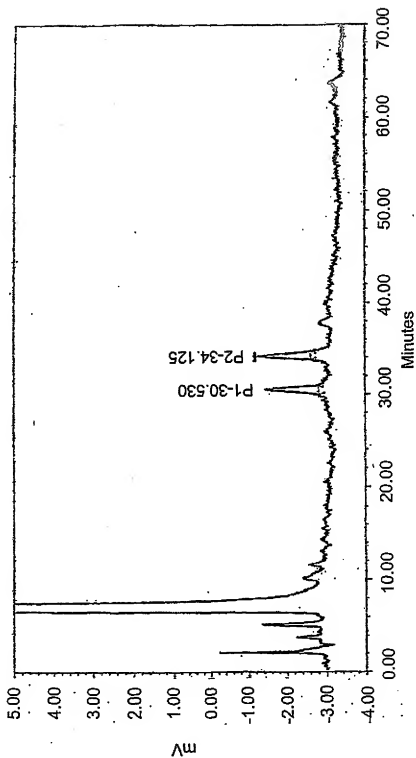


FIG. 97B

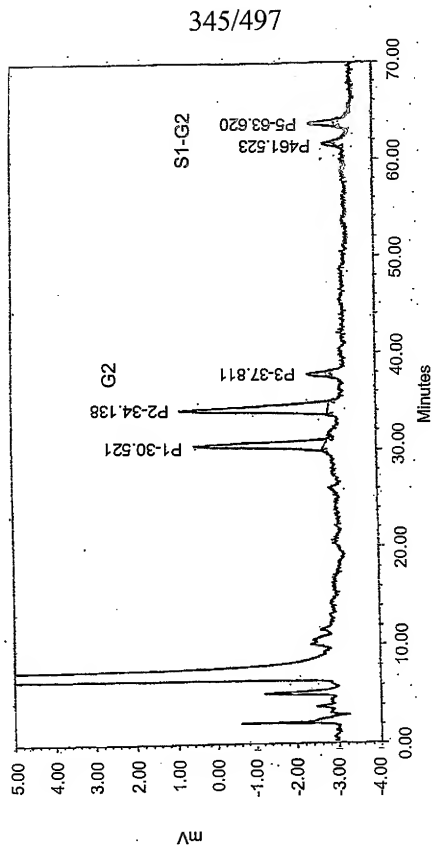


FIG. 97C

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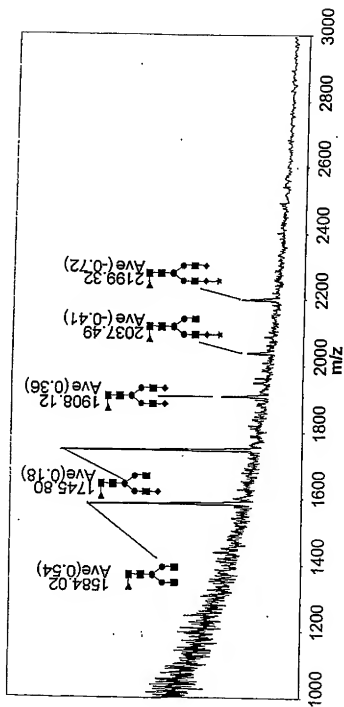


FIG. 98A

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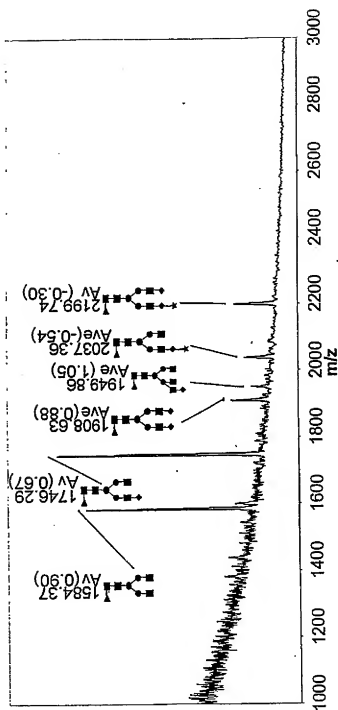


FIG. 98B

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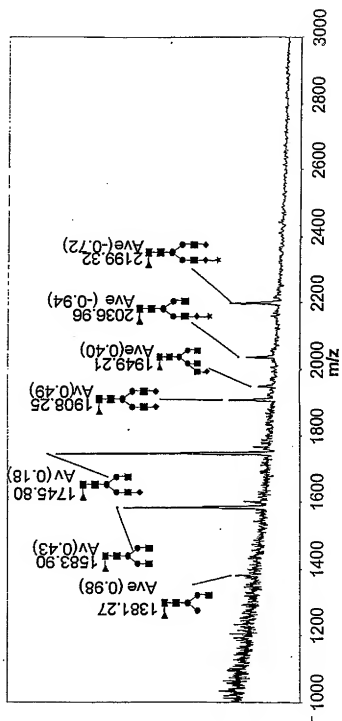


FIG. 98C

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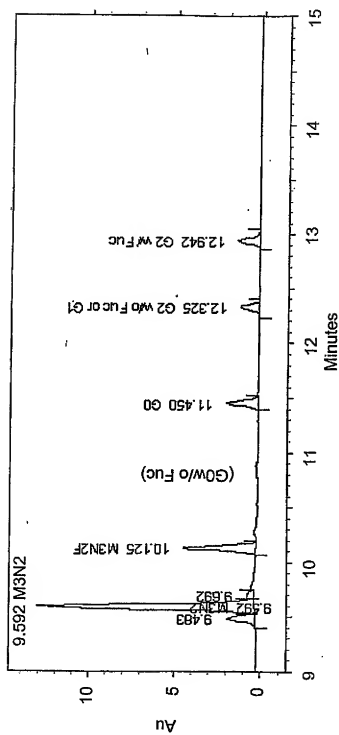


FIG. 99A



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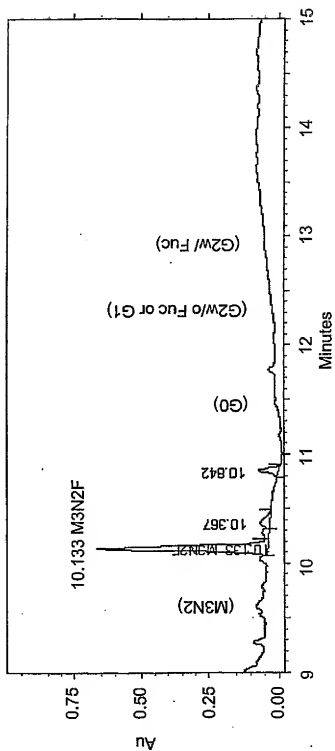


FIG. 99B

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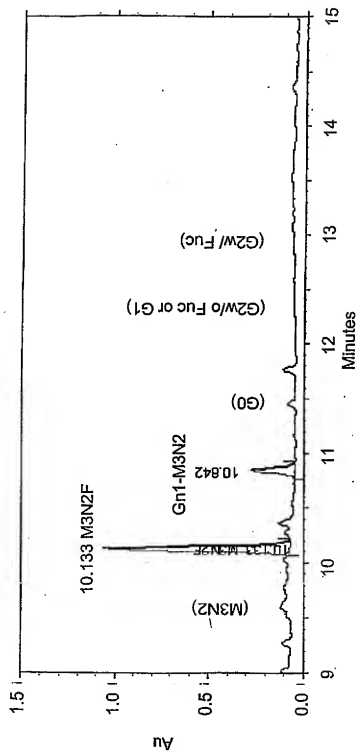


FIG. 99C

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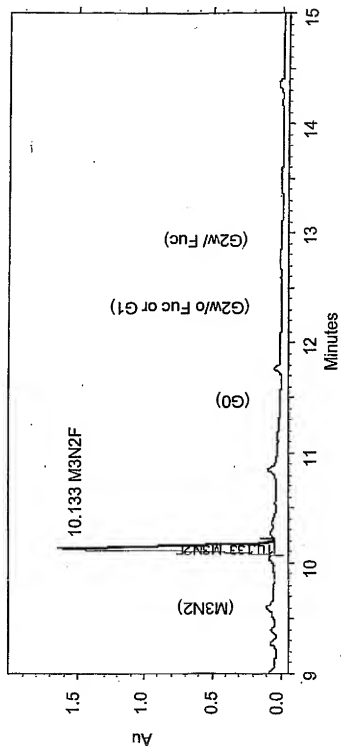


FIG. 99D

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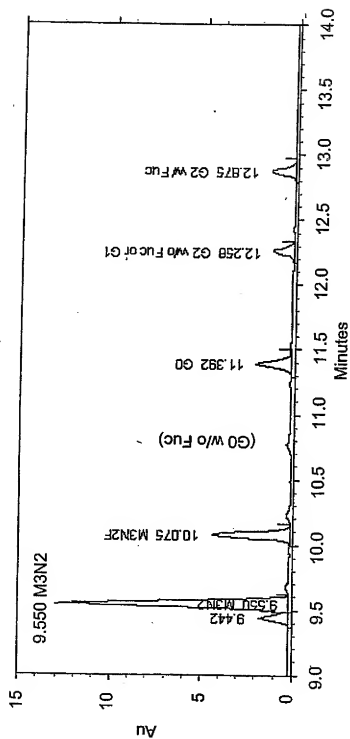


FIG. 100A

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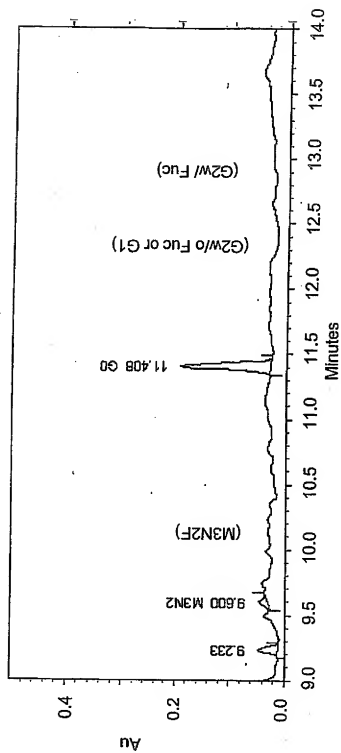


FIG. 100B

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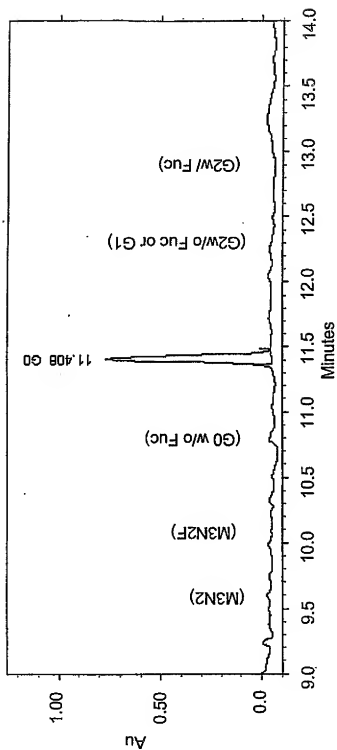


FIG. 100D

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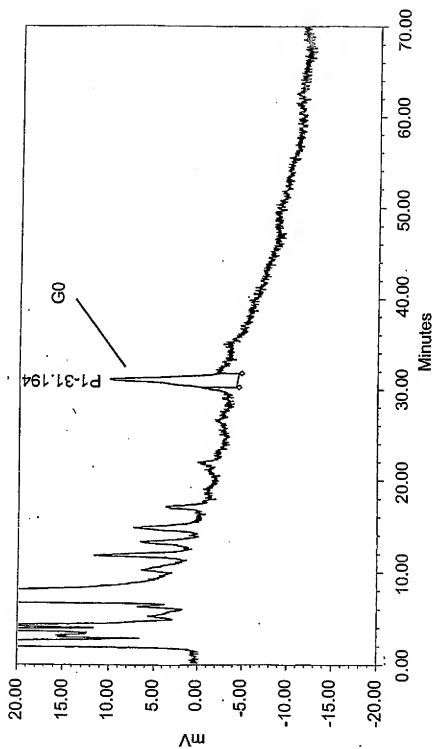


FIG. 101A

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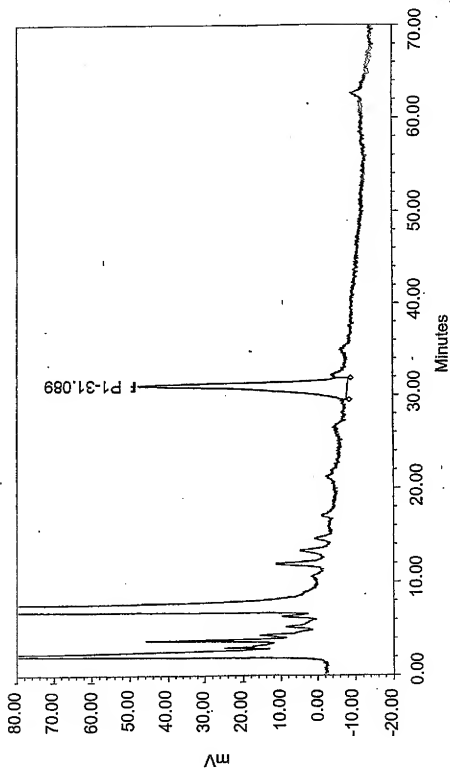


FIG. 101B



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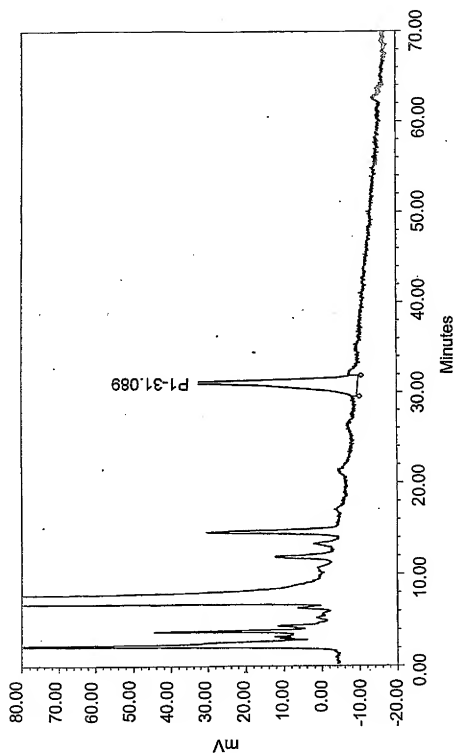


FIG. 101C

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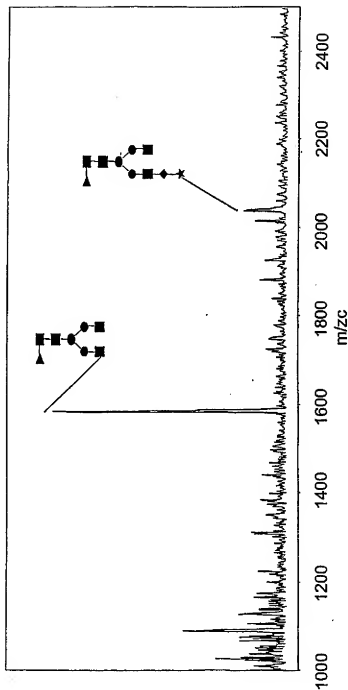


FIG. 102A

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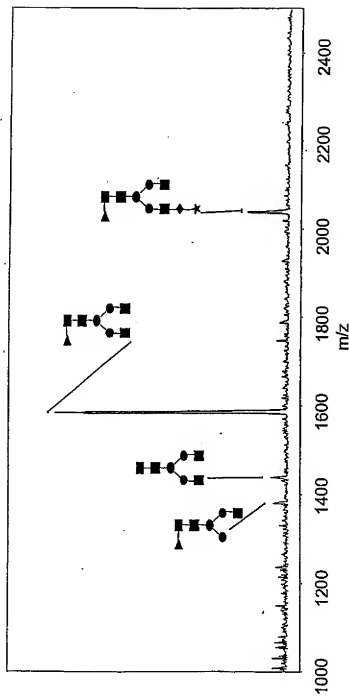


FIG. 102B

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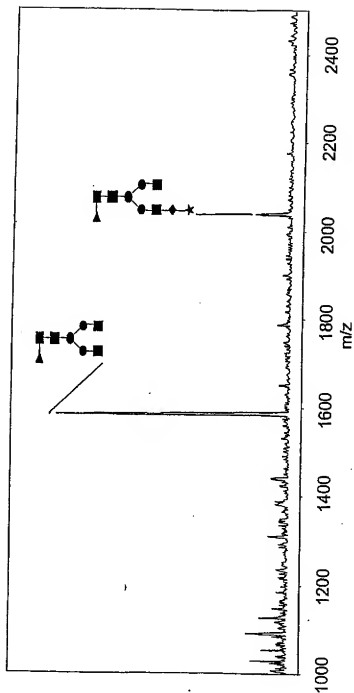


FIG. 102C

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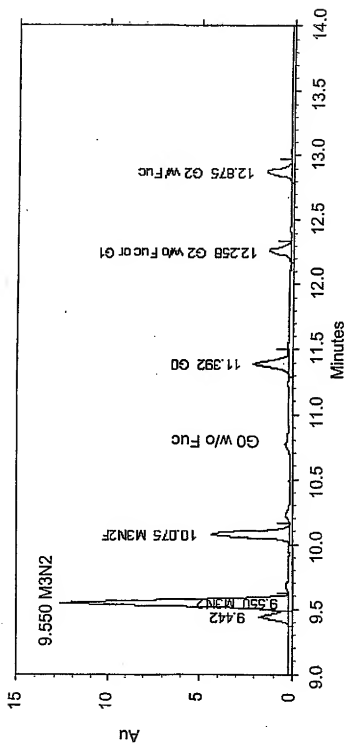


FIG. 103A

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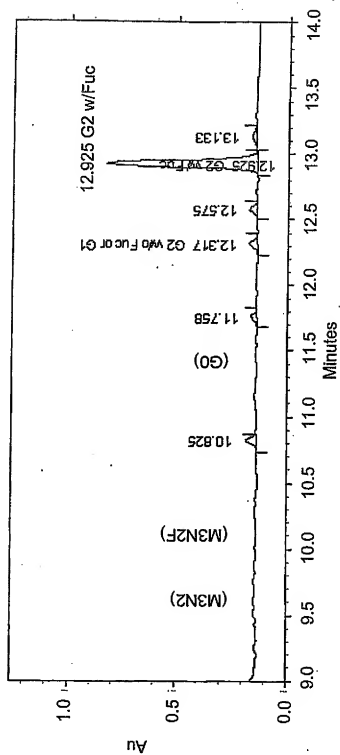


FIG. 103B

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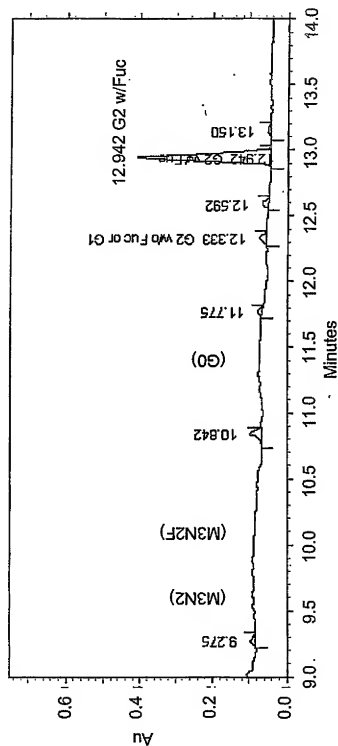


FIG. 103C

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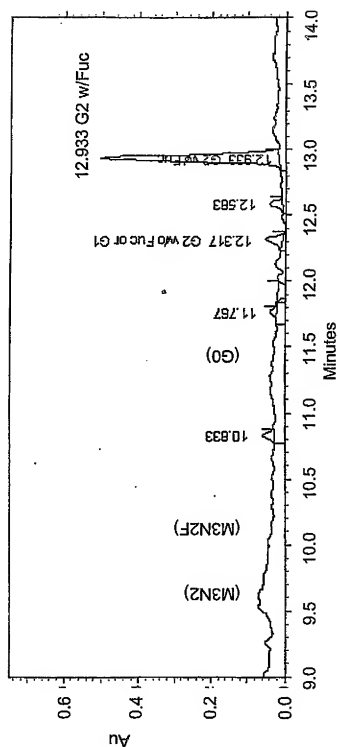


FIG. 103D



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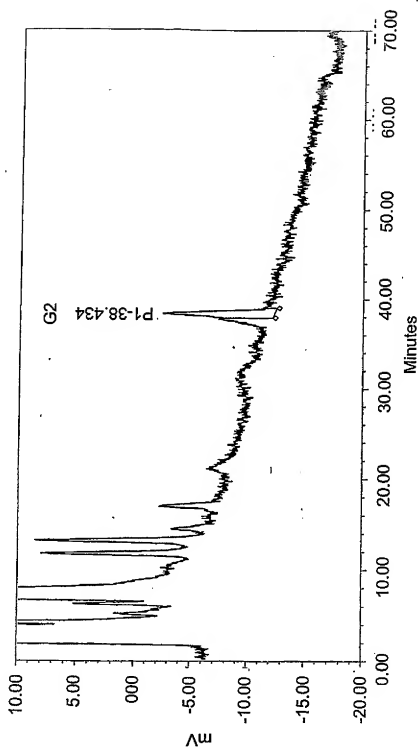


FIG. 104A

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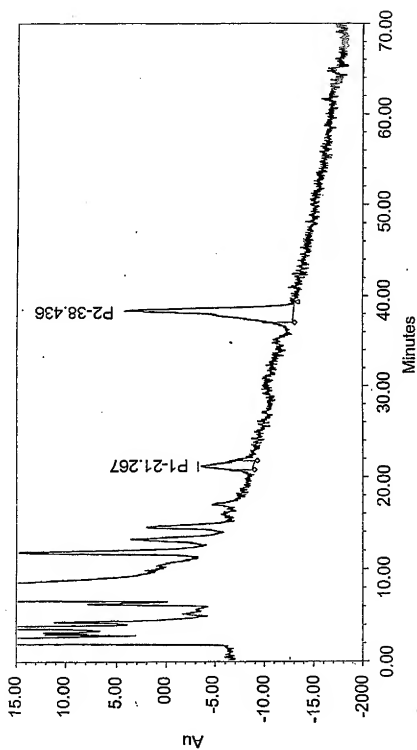


FIG. 104B

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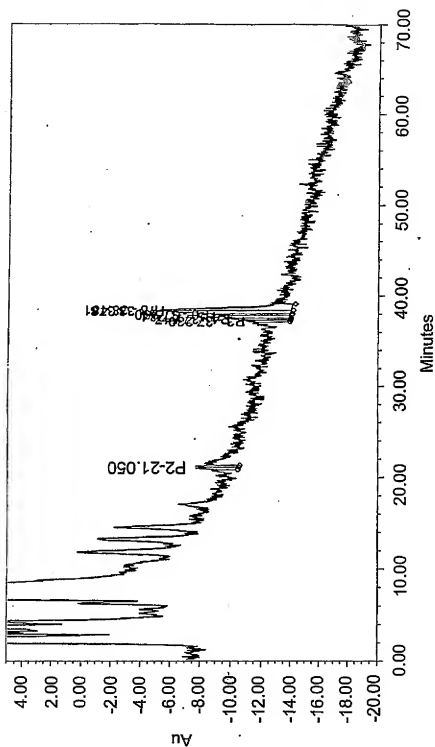


FIG. 104C

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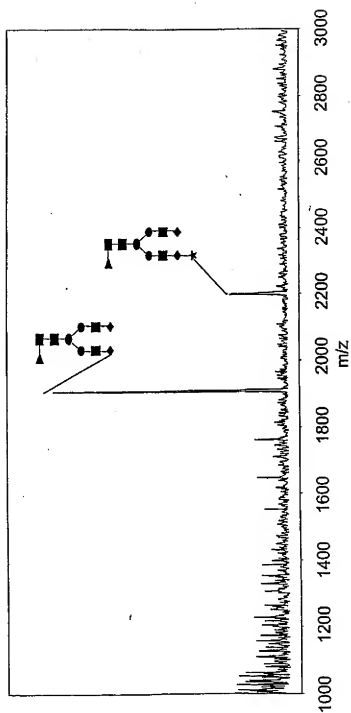


FIG. 105A

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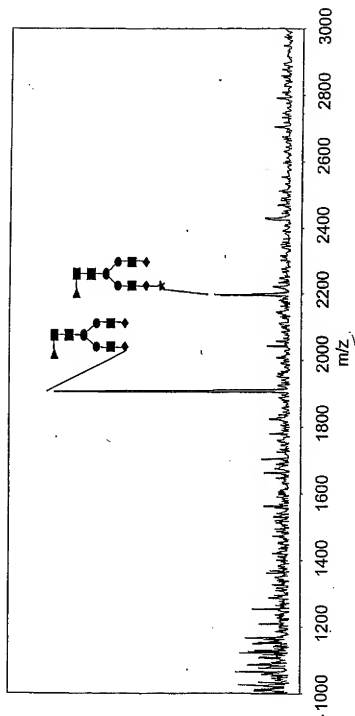


FIG. 105B

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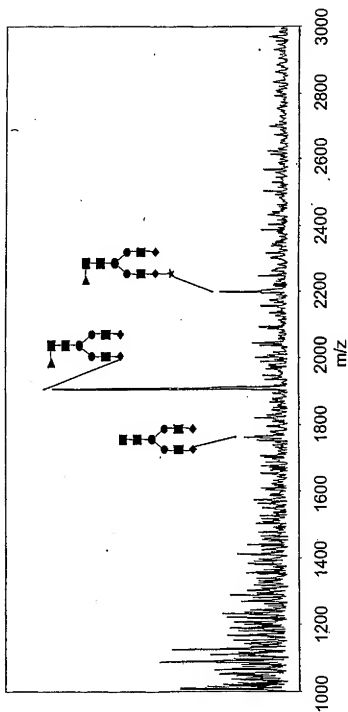


FIG. 105C

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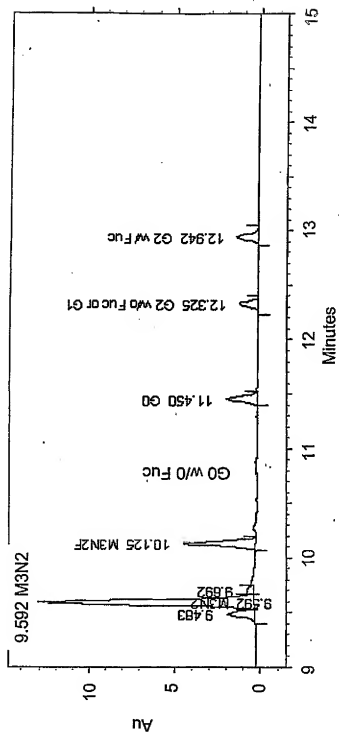


FIG. 106A

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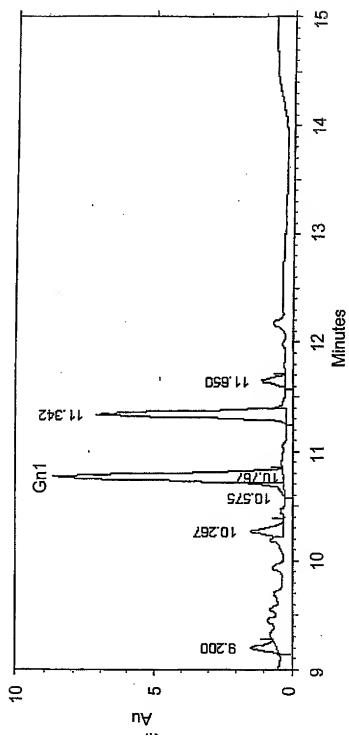


FIG. 106B



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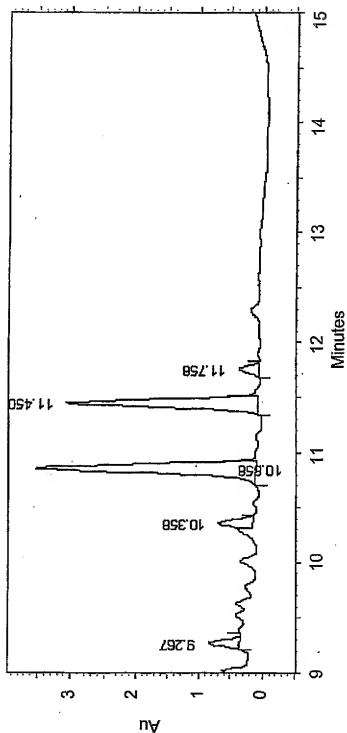


FIG. 106C

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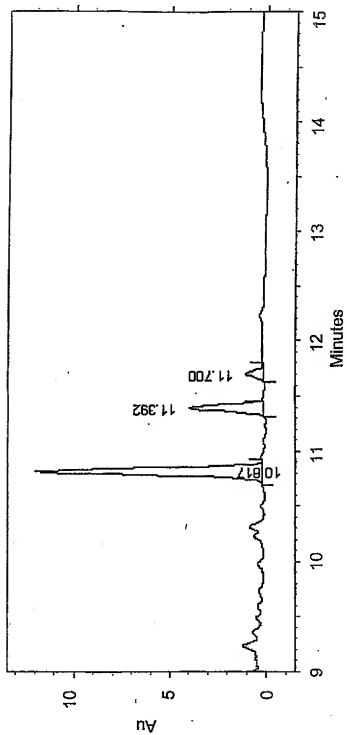


FIG. 106D

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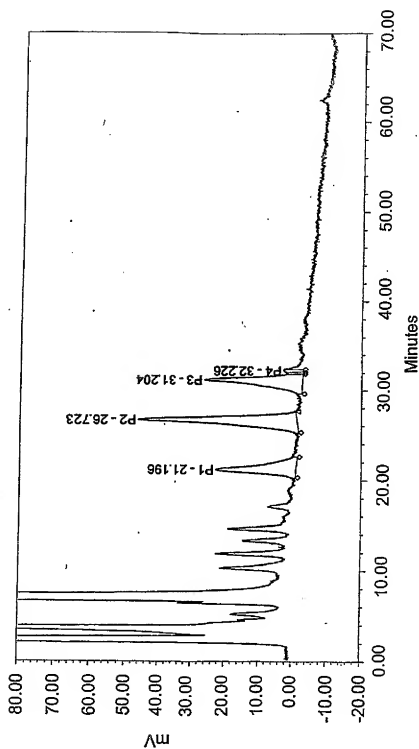


FIG. 107A

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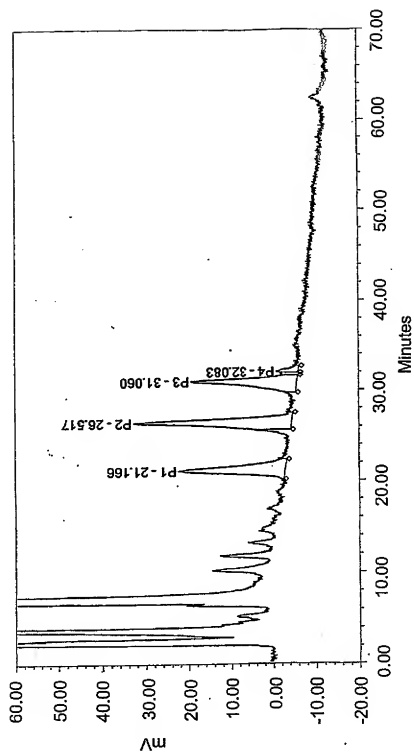


FIG. 107B

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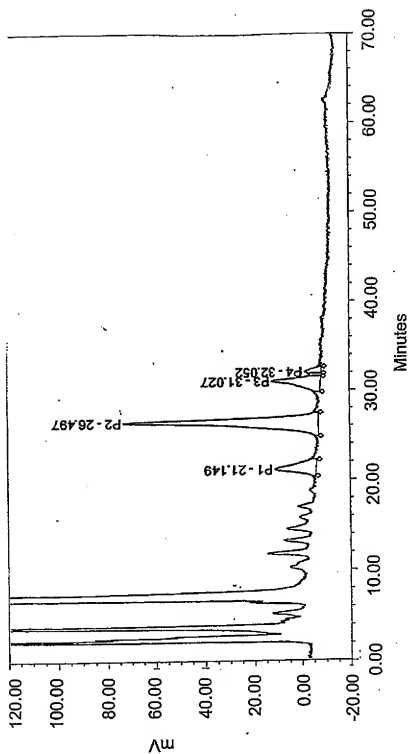


FIG. 107C

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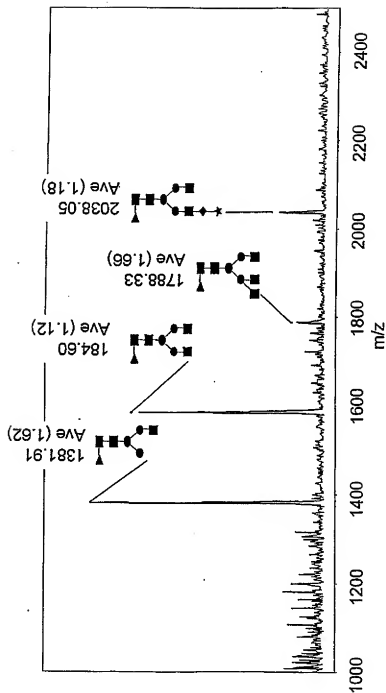


FIG. 108A

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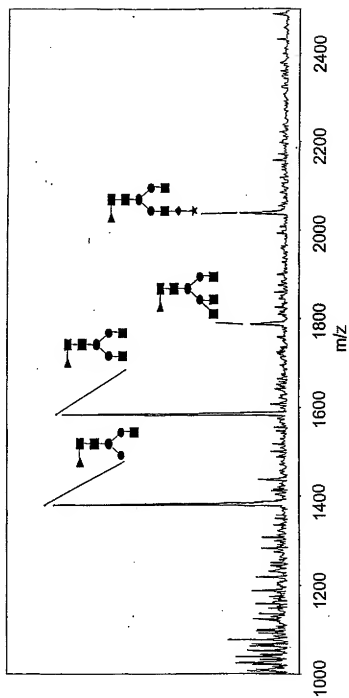


FIG. 108B

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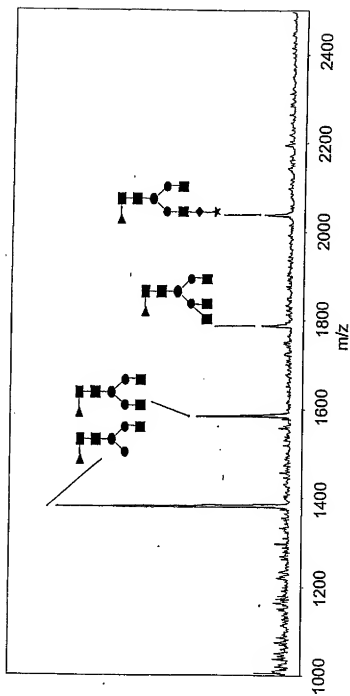


FIG. 108C



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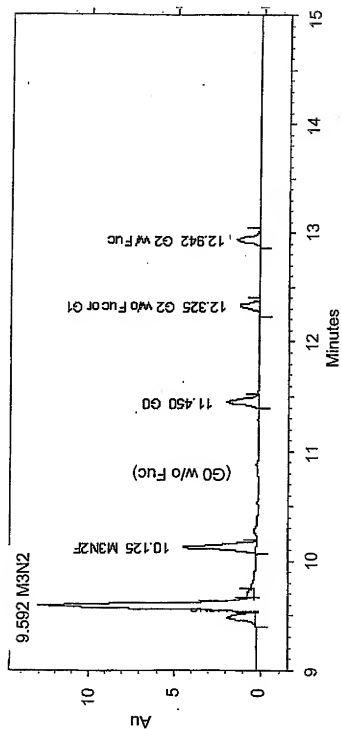


FIG. 109A

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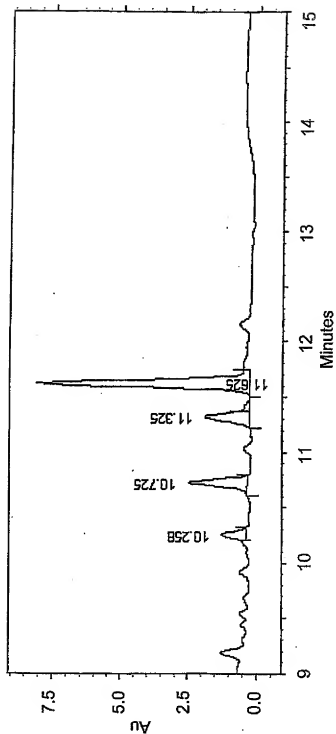


FIG. 109B

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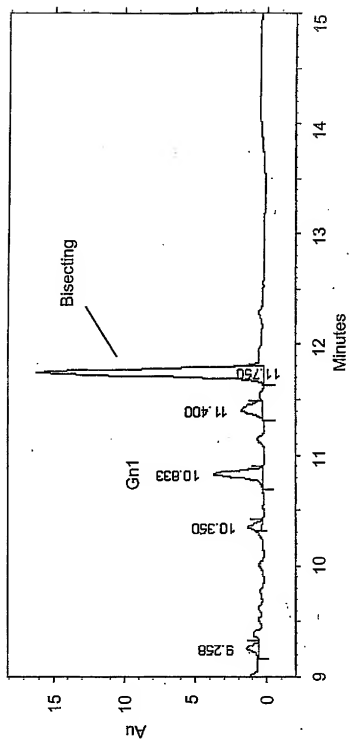


FIG. 109C

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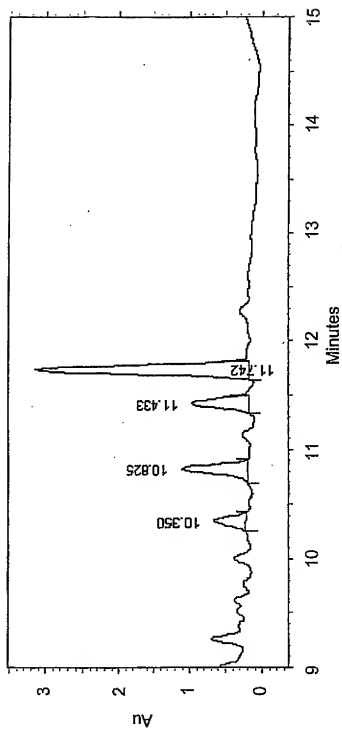


FIG. 109D

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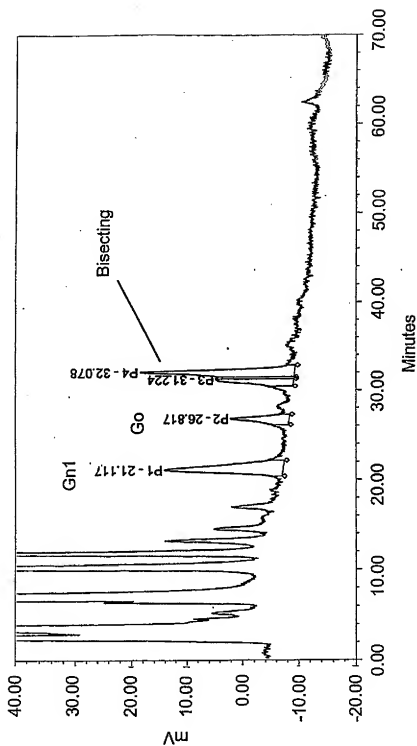


FIG. 110A

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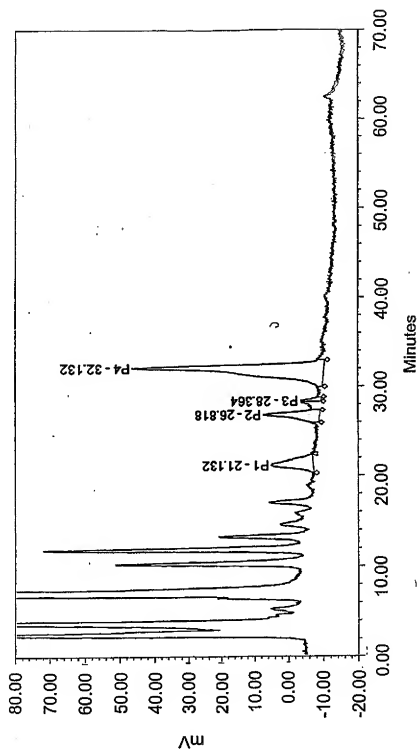


FIG. 110B

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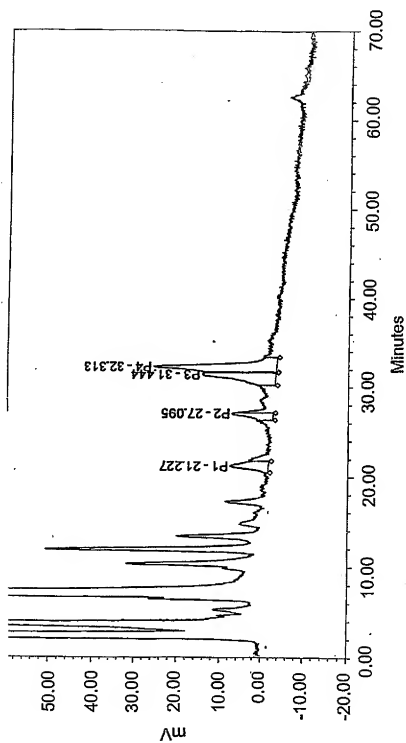


FIG. 110C

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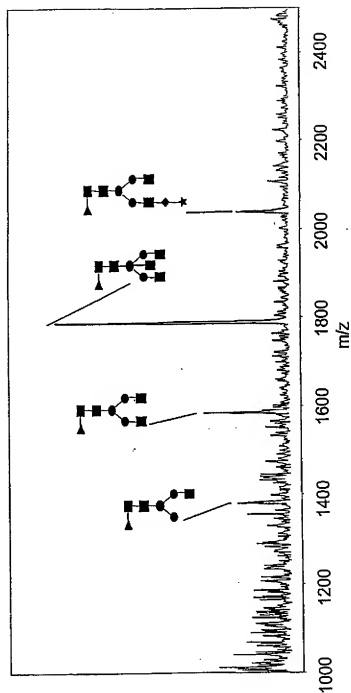


FIG. 111A



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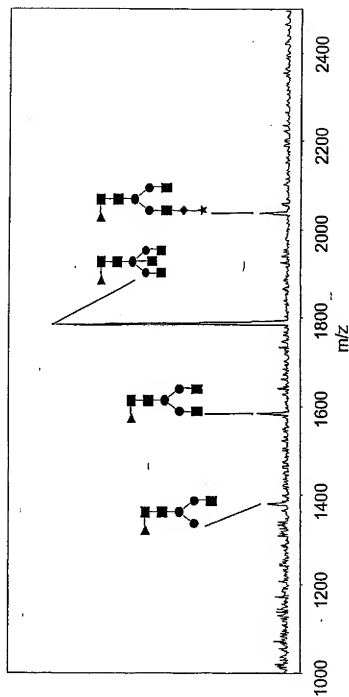


FIG. 111B

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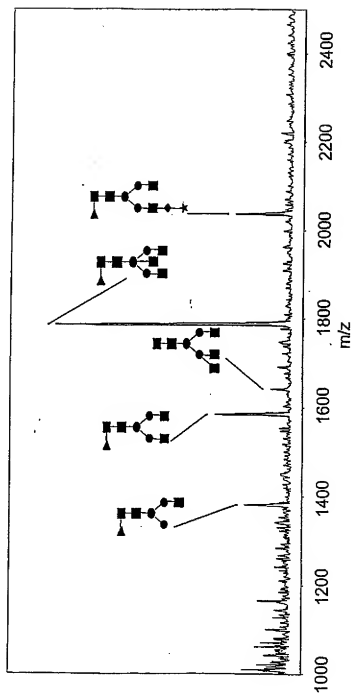


FIG. 111C

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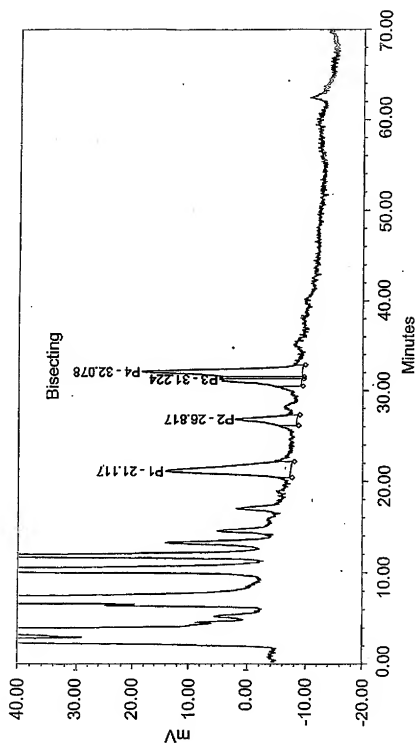


FIG. 112A

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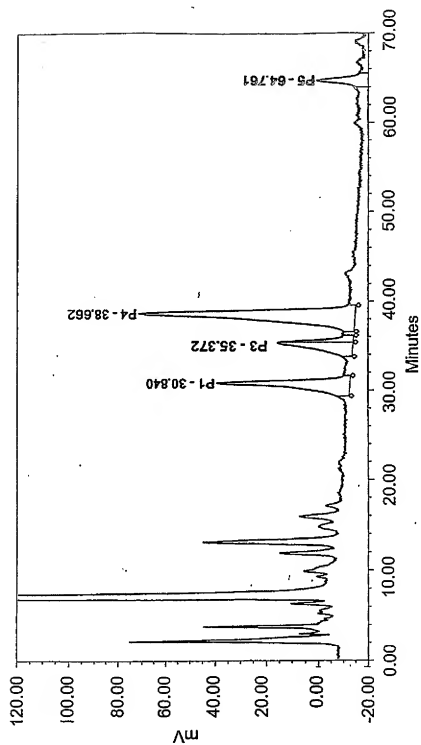


FIG. 112B

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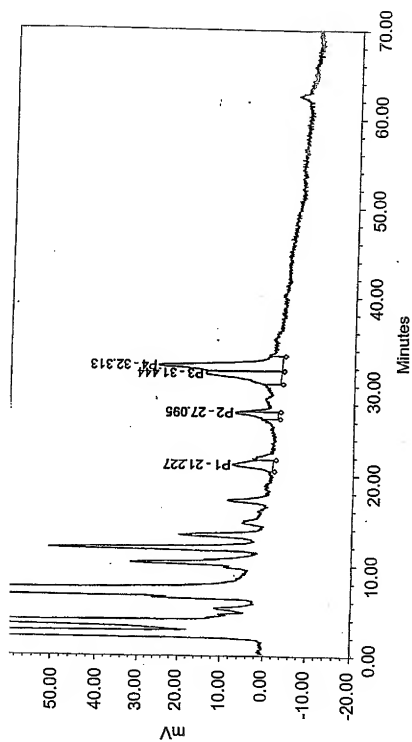


FIG. 112C

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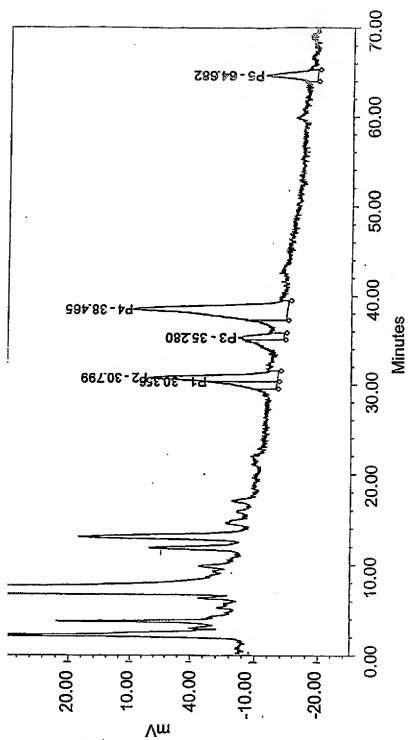


FIG. 112D

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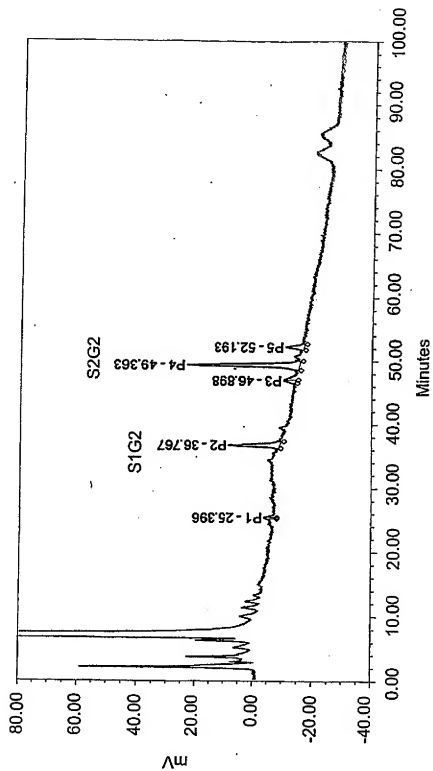


FIG. 113A

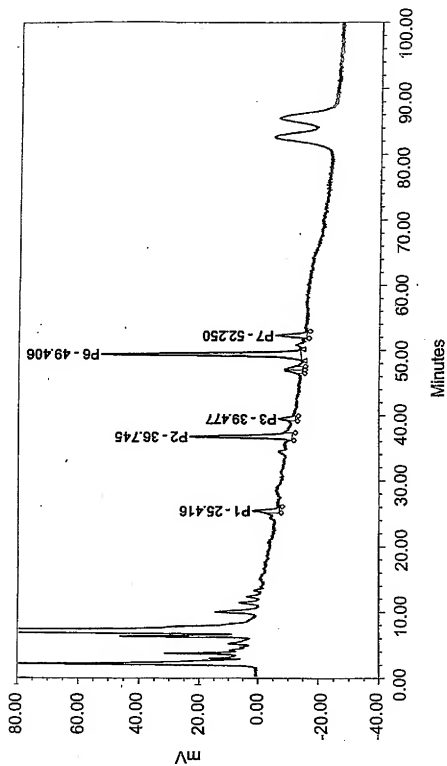


FIG. 113B



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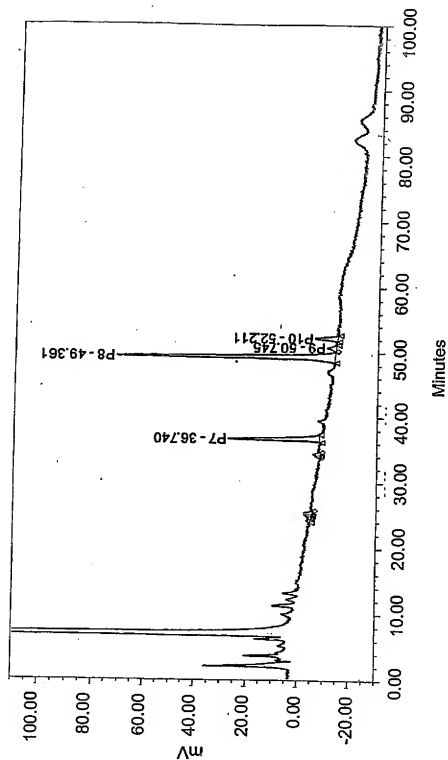


FIG. 113C

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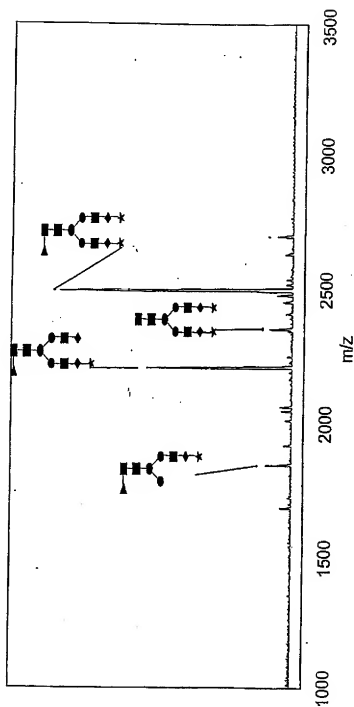


FIG. 114A

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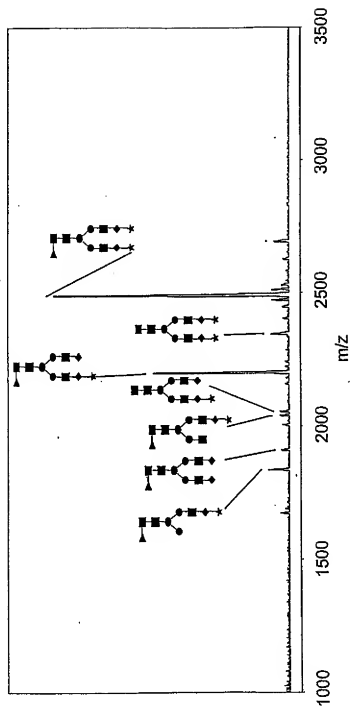


FIG. 114B

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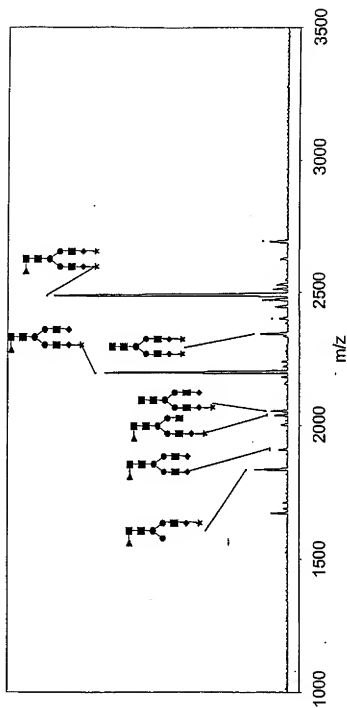


FIG. 114C

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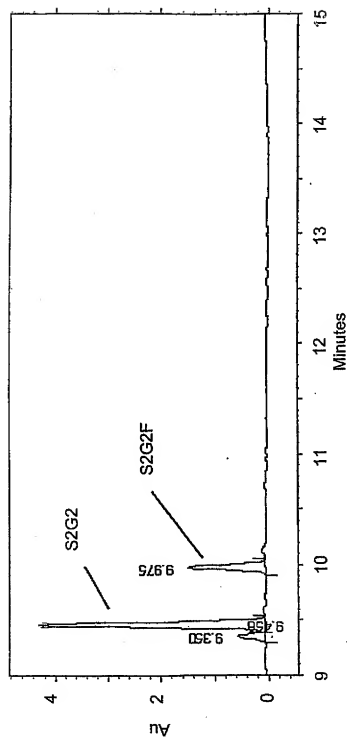


FIG. 115A

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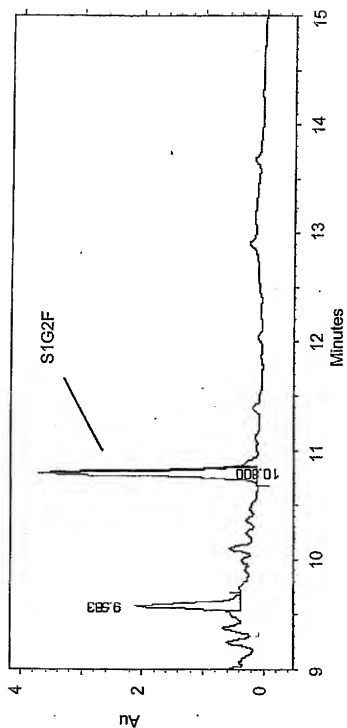


FIG. 115B

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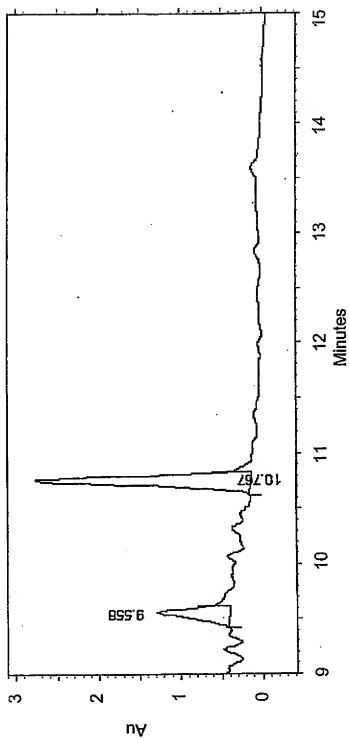


FIG. 115C

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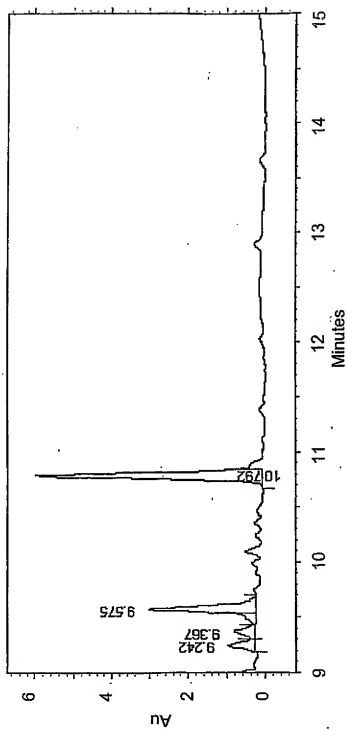


FIG. 115D



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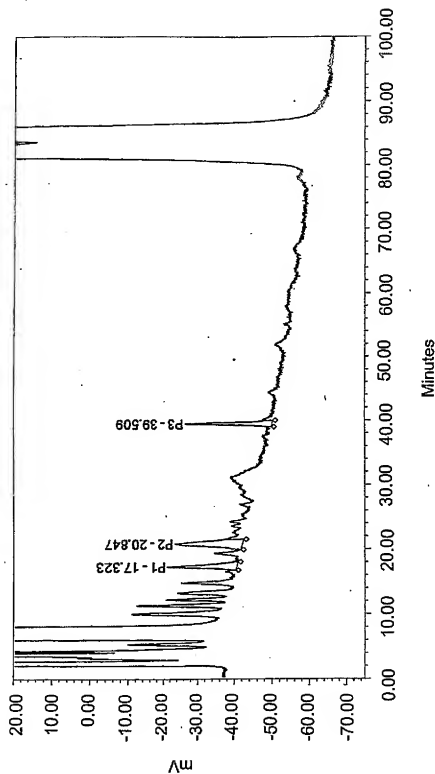


FIG. 116A

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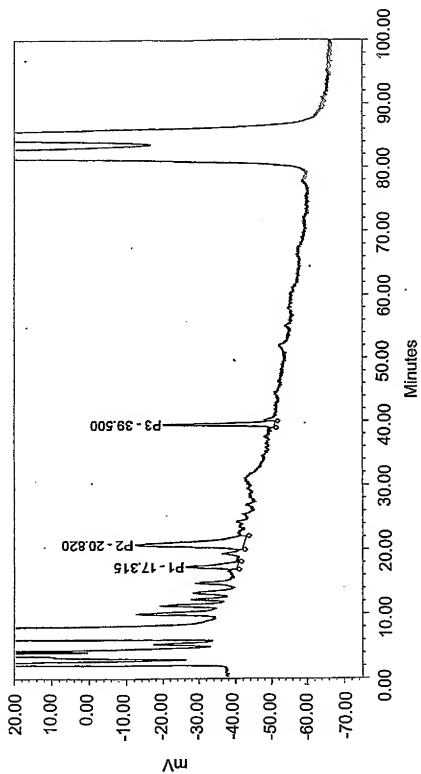


FIG. 116B

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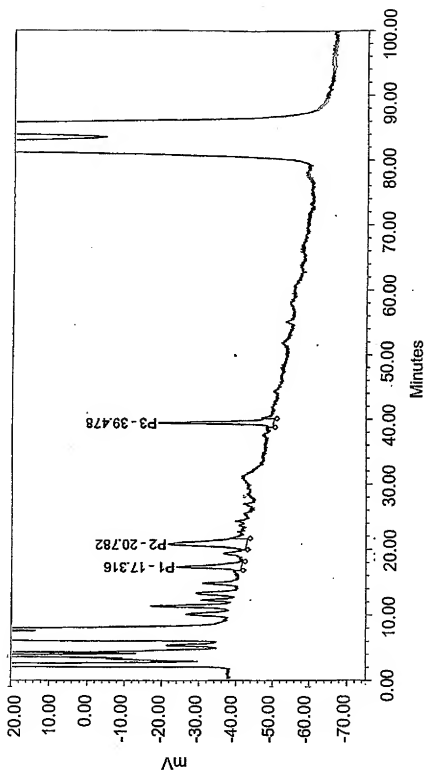


FIG. 116C

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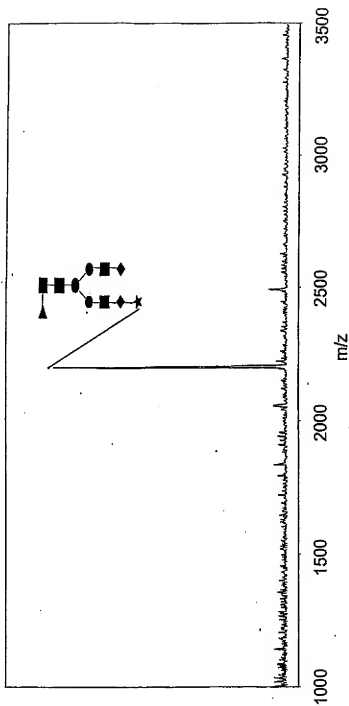


FIG. 117A

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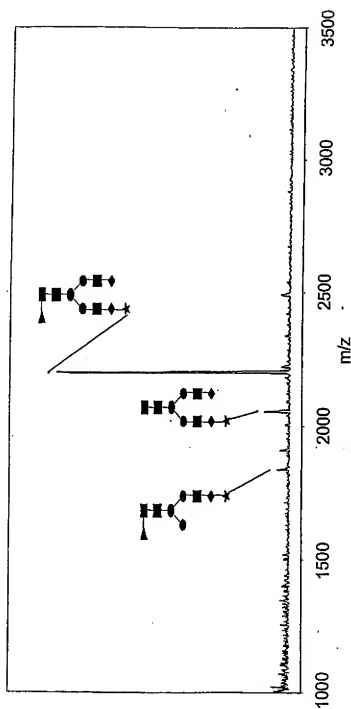


FIG. 117B

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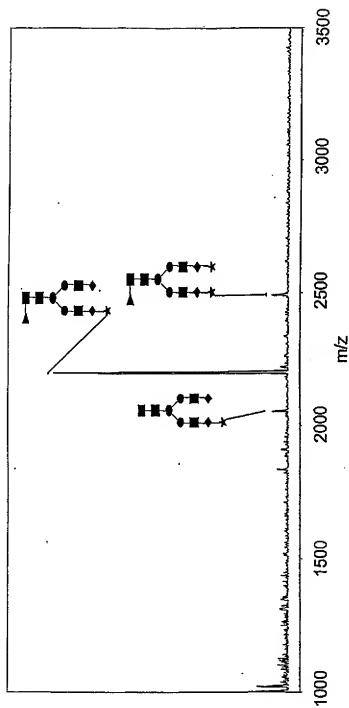


FIG. 117C

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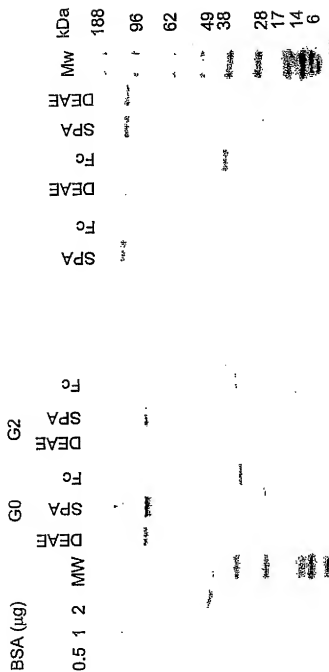


FIG. 118A

FIG. 118B

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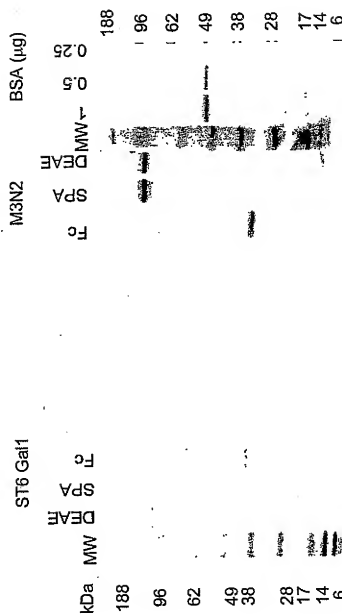


FIG. 118D

FIG. 118C



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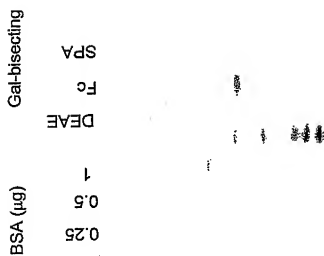


FIG. 118E

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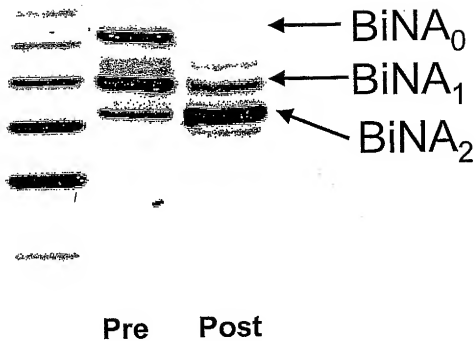


FIG. 119

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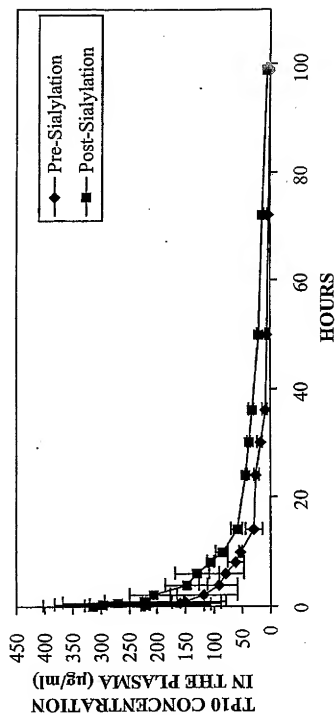


FIG. 120

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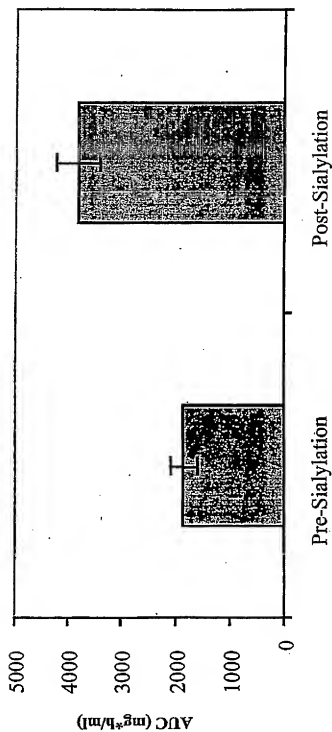


FIG. 121

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FIG. 122

Pre +SA +F TP20

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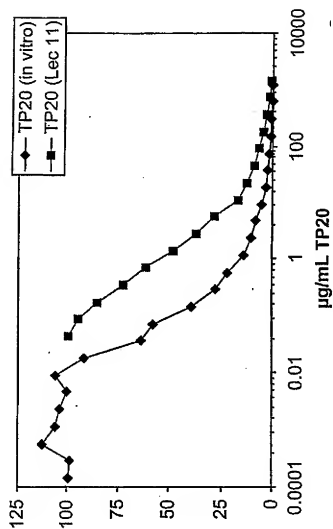


FIG. 123

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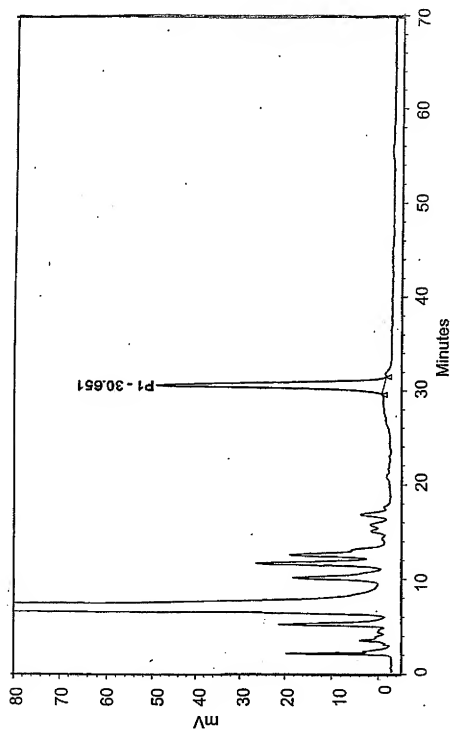


FIG. 124

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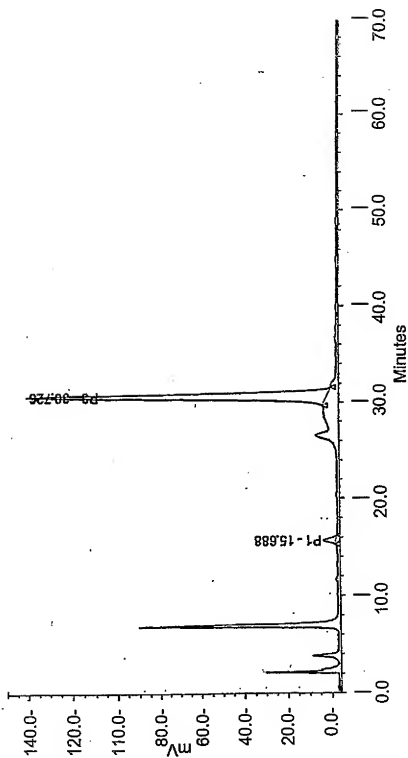


FIG. 125A



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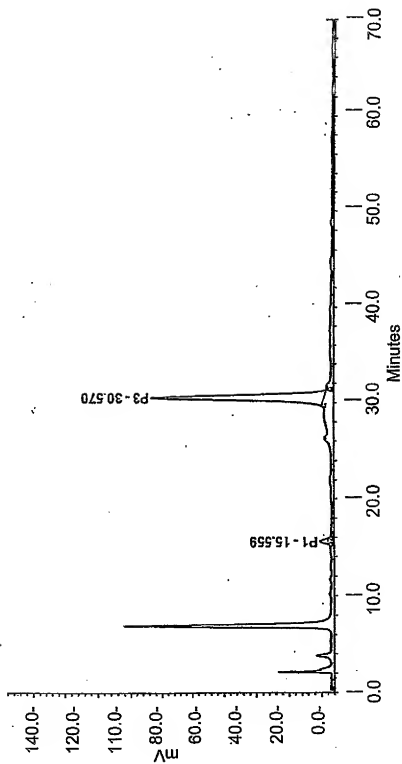


FIG. 125B

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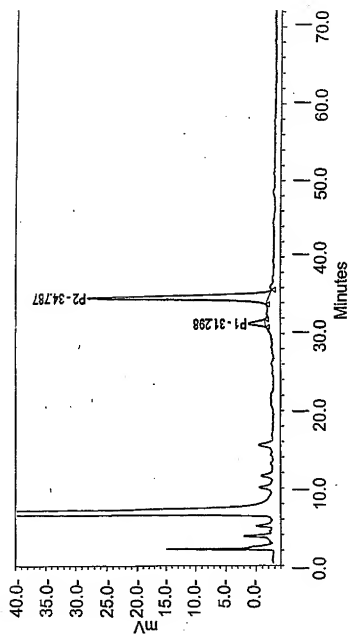


FIG. 126

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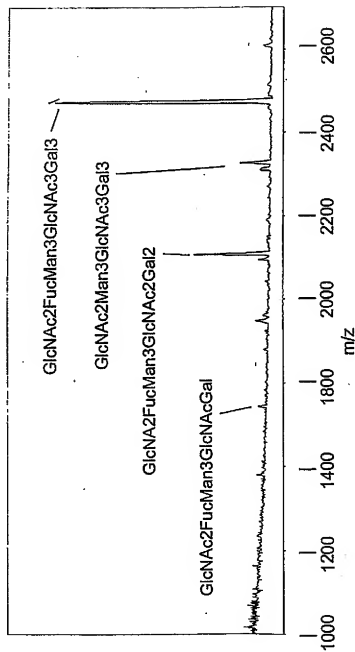


FIG. 127

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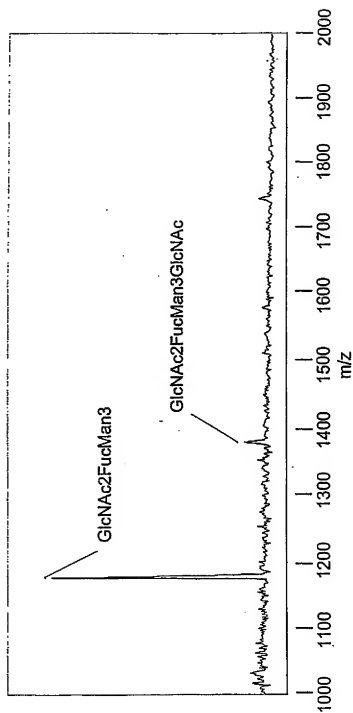


FIG. 128

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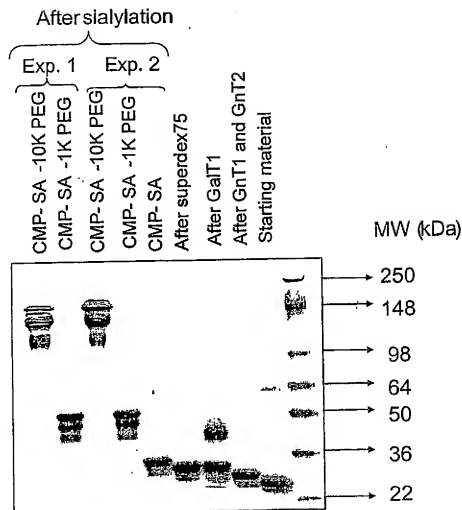


FIG. 129

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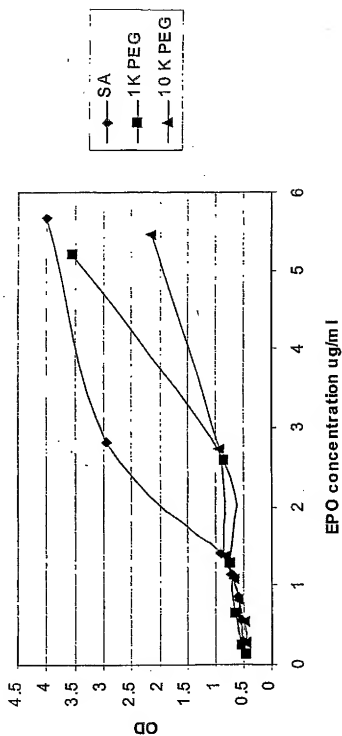
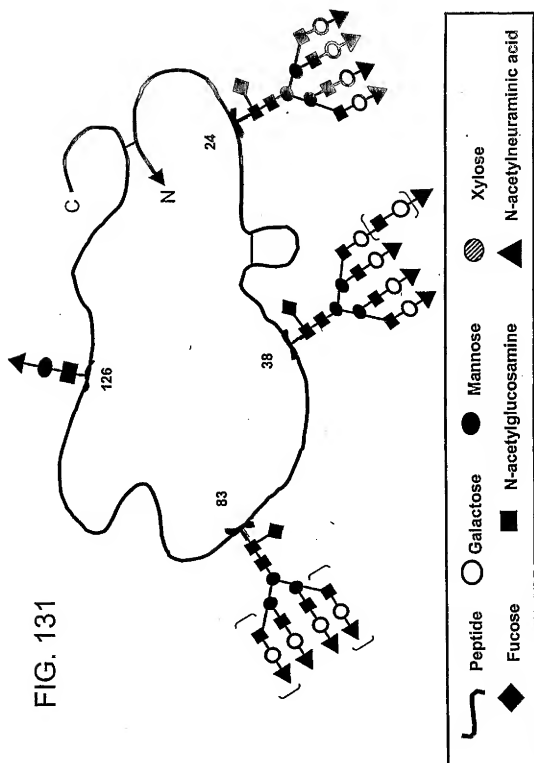


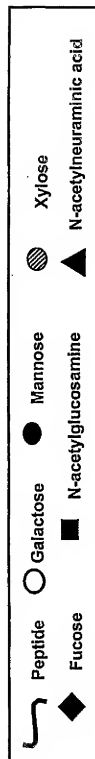
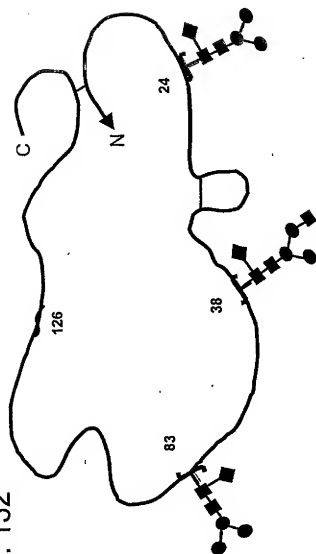
FIG. 130

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FIG. 132





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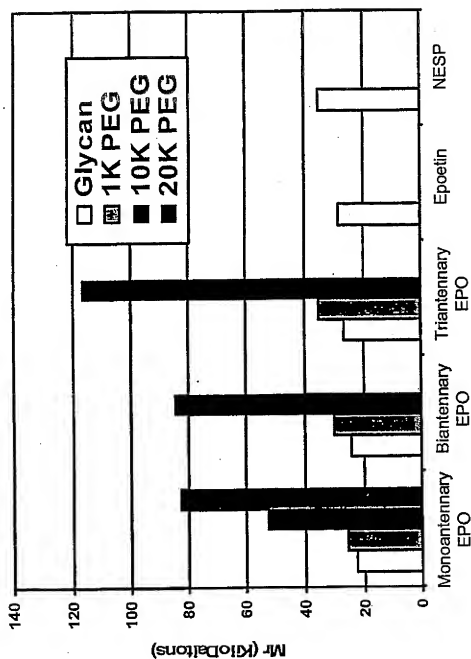
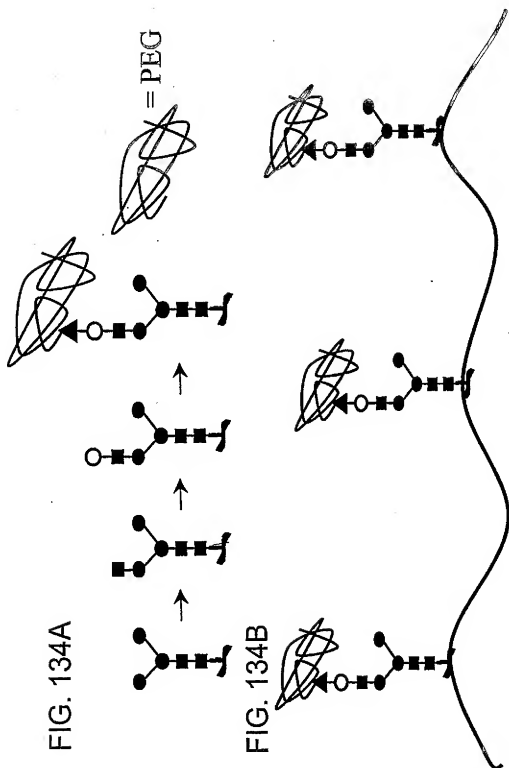


FIG. 133

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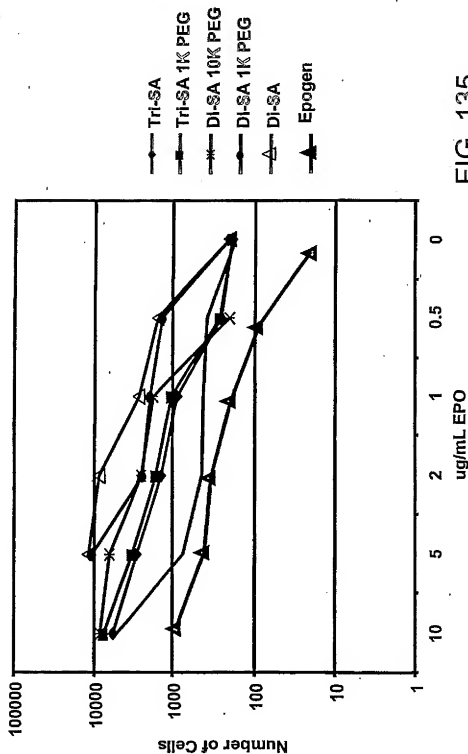


FIG. 135

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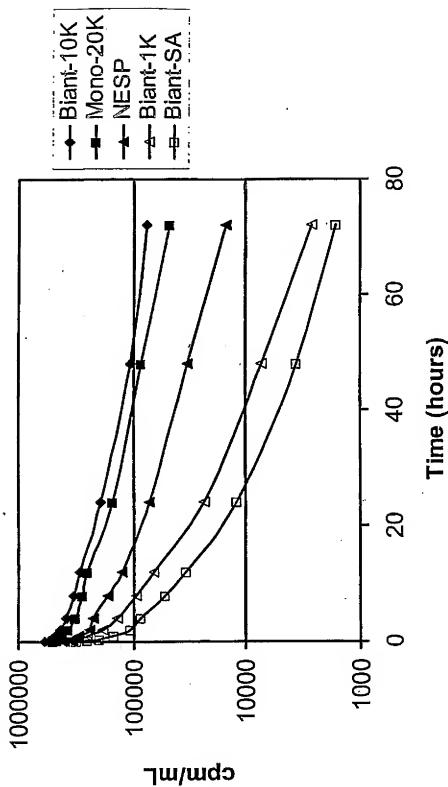


FIG. 136

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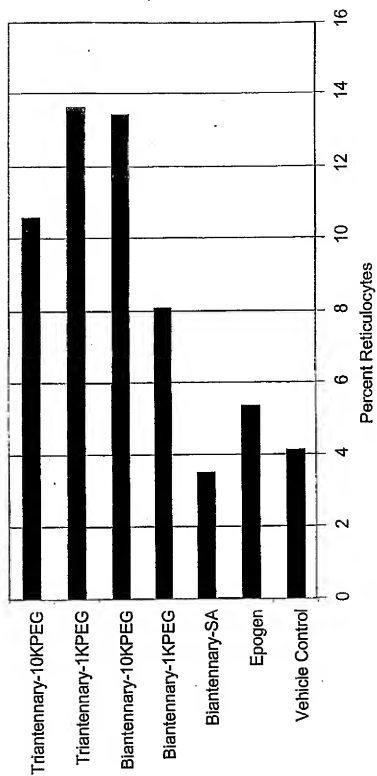


FIG. 137

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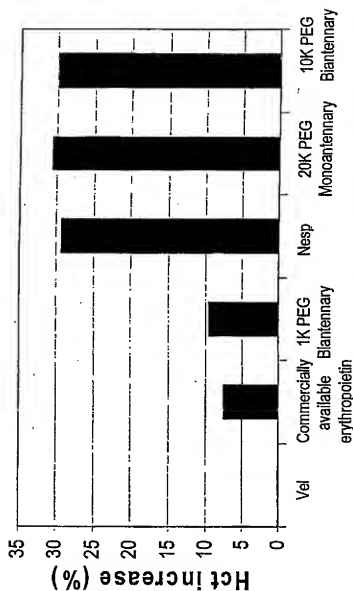


FIG. 138

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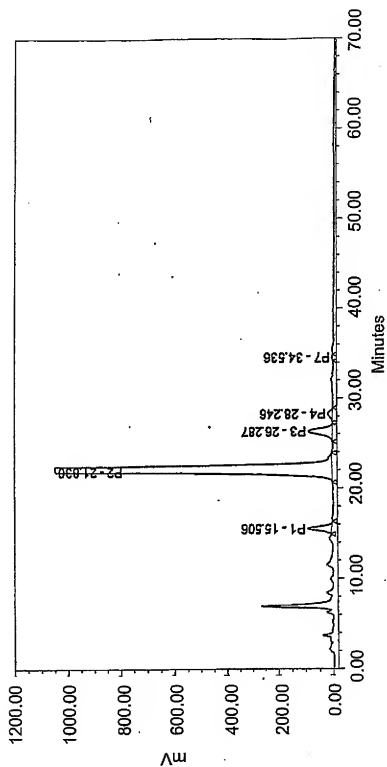


FIG. 139A

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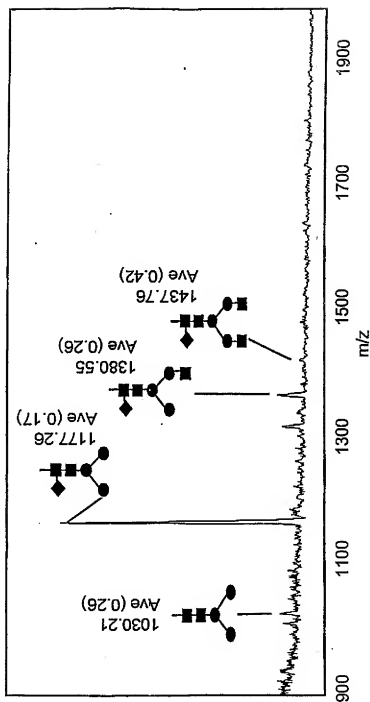


FIG. 139B



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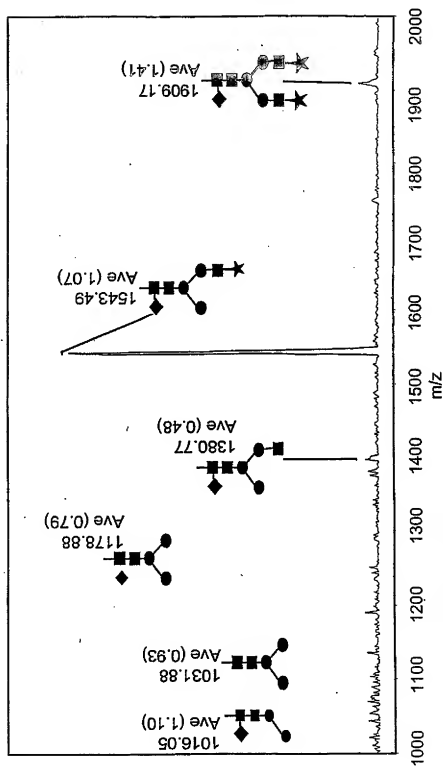


FIG. 140

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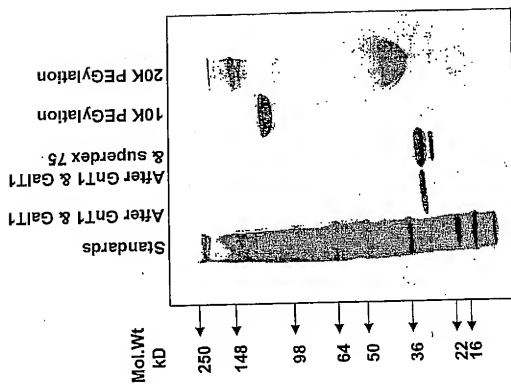


FIG. 141

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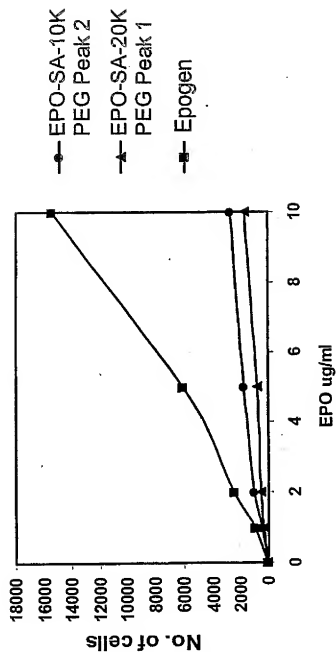


FIG. 142

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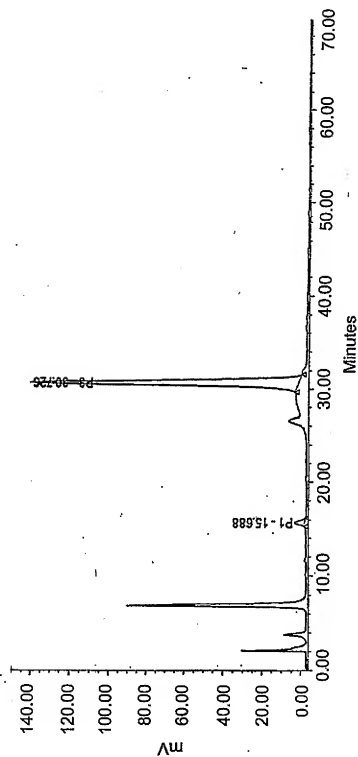


FIG. 143A

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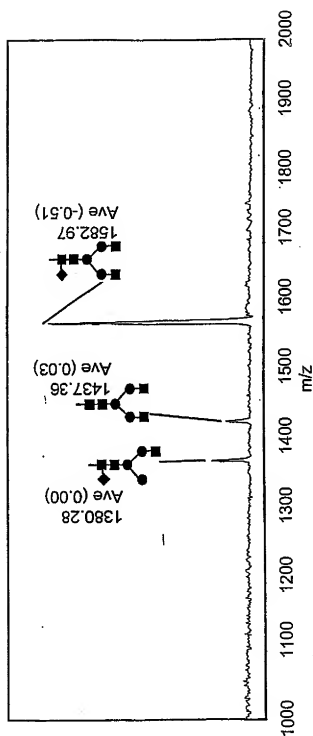


FIG. 143B

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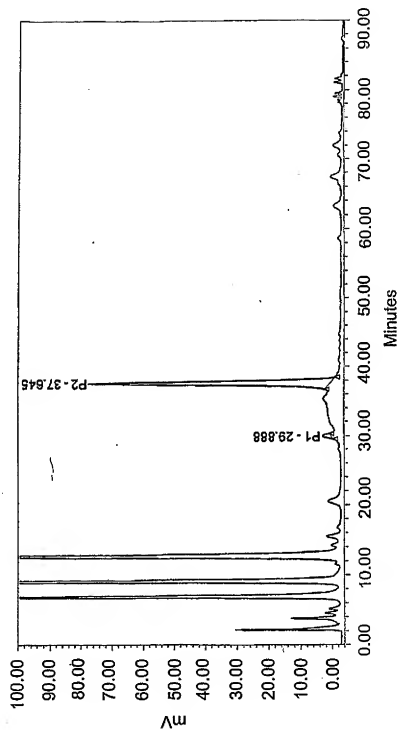


FIG. 144A

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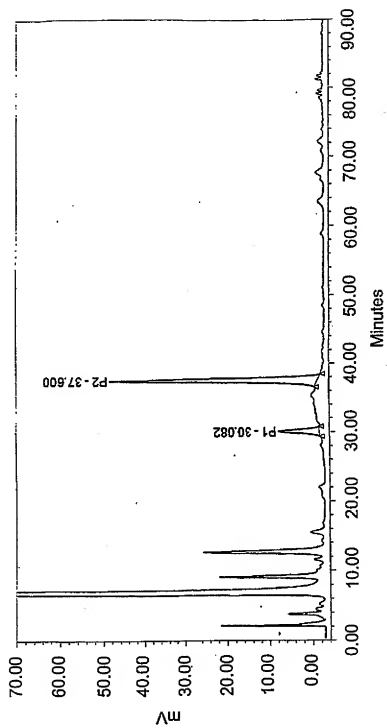


FIG. 144B

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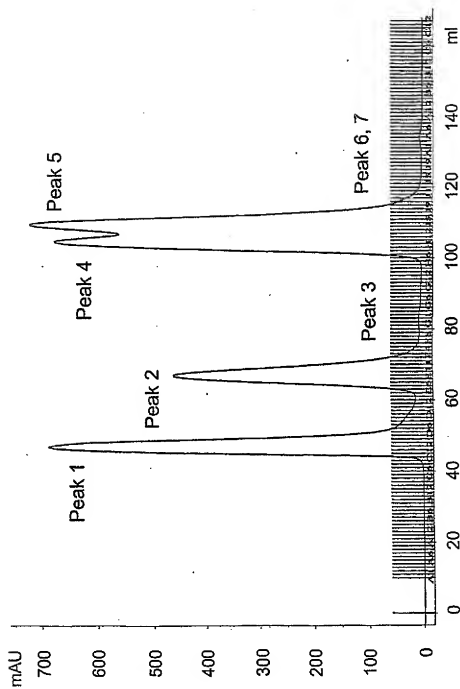


FIG. 145



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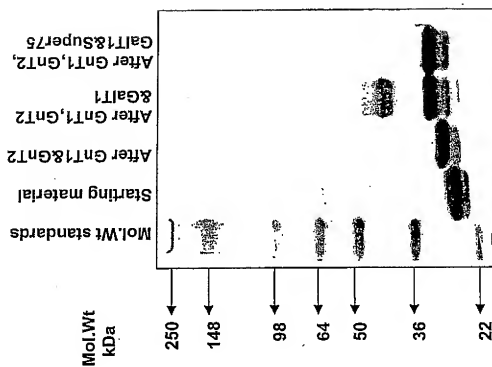


FIG. 146

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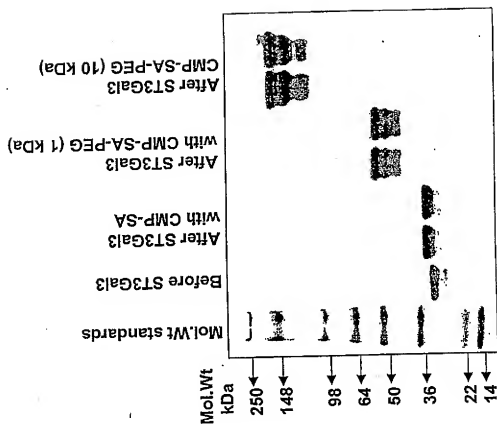


FIG. 147

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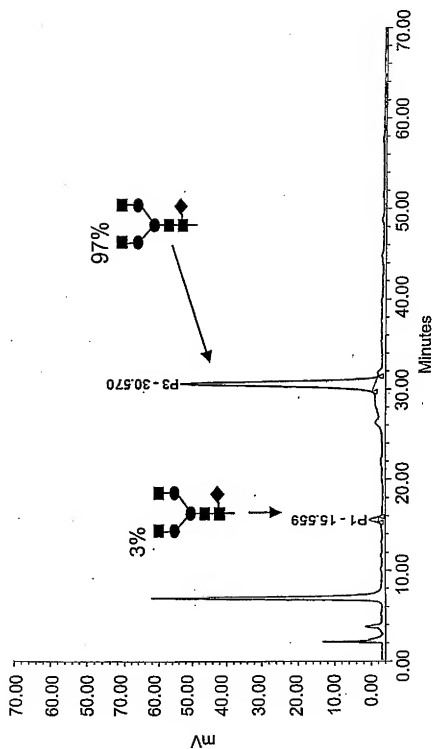


FIG. 148

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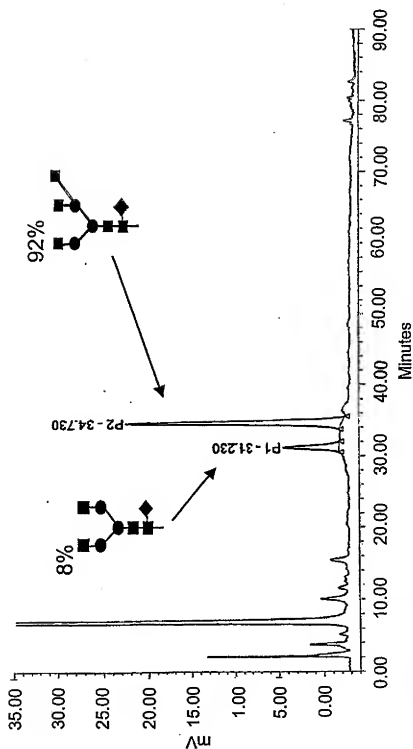


FIG. 149

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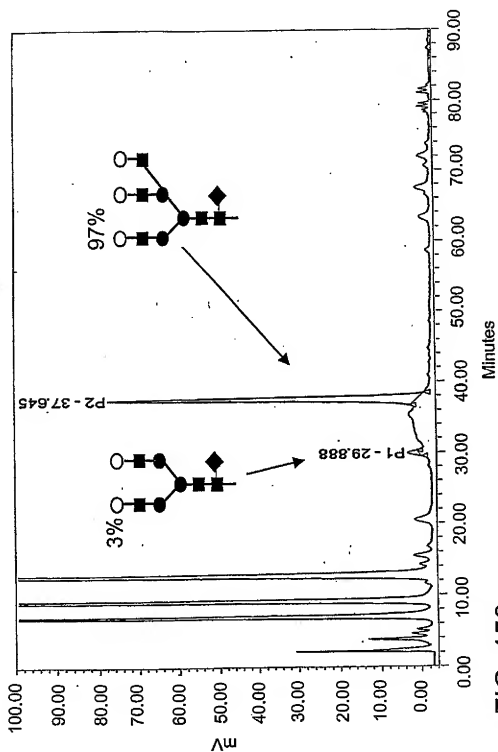


FIG. 150

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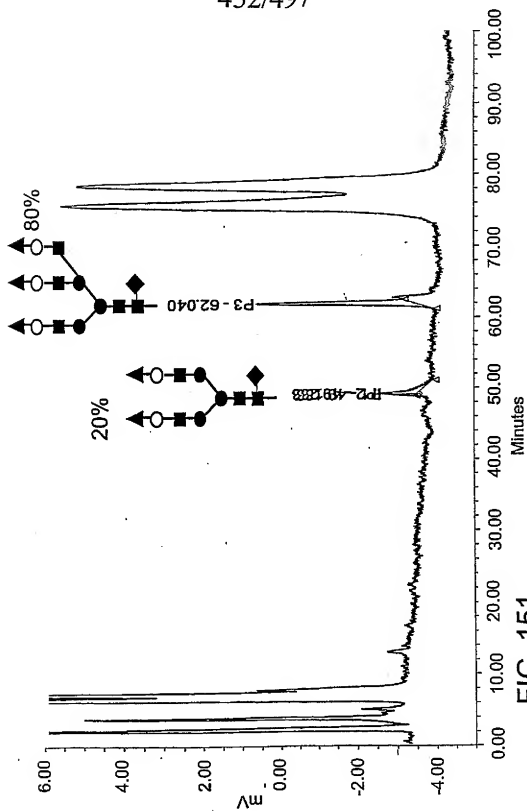


FIG. 151

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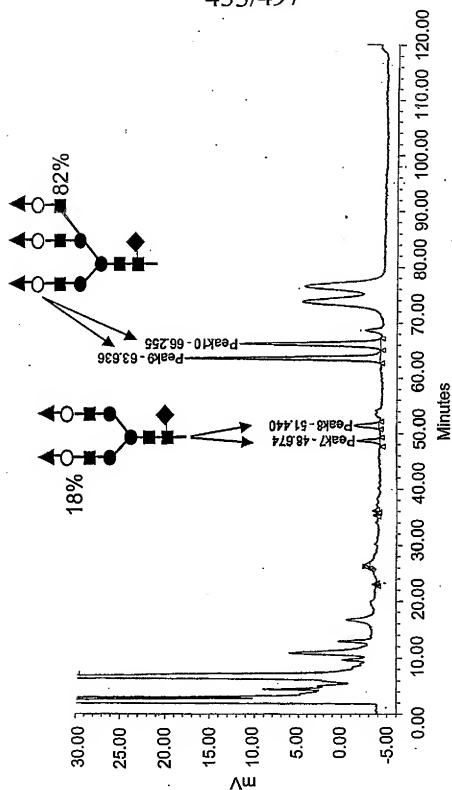


FIG. 152

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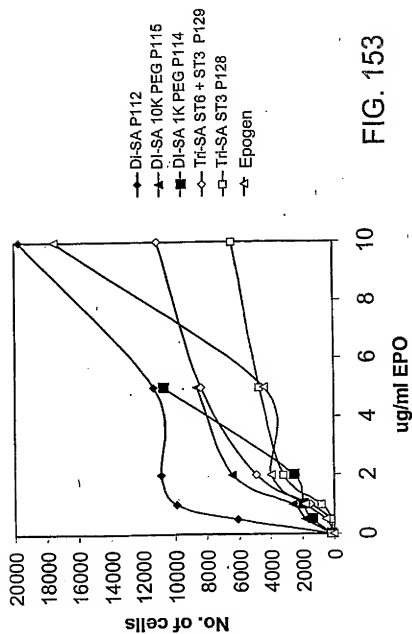


FIG. 153



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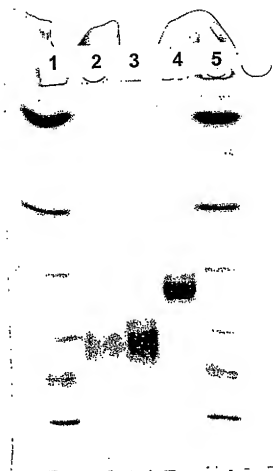


FIG. 154

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FIG. 155

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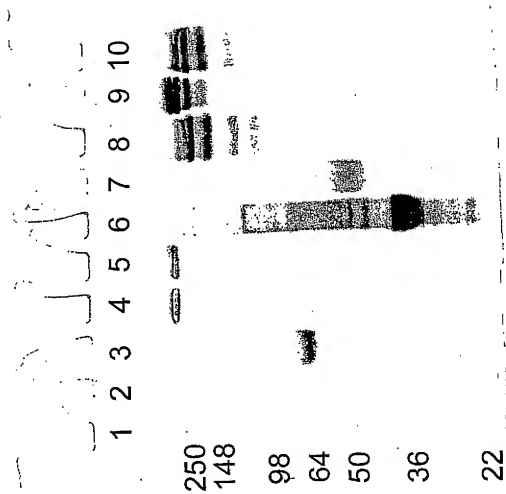


FIG. 156